**ALGORITHMS**

**Approximate string matching**

김서영

컴퓨터학과

2018320259

목차

Ⅰ. Index 파일

1. 헤더파일 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p3
2. 구조체 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p3
3. 함수 선언 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p4
4. main 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p5
5. makeIndexer 함수 •••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p6
6. makeAlphabetNum 함수 & makeNum 함수 •••••••••••••••••••••••••••••••••••••••••••• p9
7. insertIndex 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p10
8. printIndex 함수 •••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p12
9. indexDestroy 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p13

Ⅱ. Search 파일

1. 헤더파일 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p14
2. 구조체 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p14
3. 함수 선언 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p15
4. main 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p17
5. twogram 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p19
6. deleteIndex 함수 •••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p24
7. makeStr 함수 •••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p25
8. 편집거리 관련 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p27
9. 메모리 해제 함수 ••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p29

Ⅲ. 실행 화면 캡처 •••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• p30

**Ⅰ. Index 파일**

1. **헤더파일**

텍스트이(가) 표시된 사진

자동 생성된 설명

헤더 파일로 <stdio.h>, <string.h>, <stdlib.h>를 사용하였습니다.

알파벳의 수와 2-gram의 수를 매크로로 설정하였습니다.

1. **구조체**

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADk3LTIzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MgAAkpIAAgAAAAM0MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMjoyMiAxMDoxMDoxMAAyMDIwOjEyOjIyIDEwOjEwOjEwAAAAOQA3AC0AMgAzAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMTItMjJUMTA6MTA6MTAuNDE5PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPjk3LTIzPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAU0DowMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6KKKACiiusuLS3Frcf6PbixWxWSLCL54cgYY/x9c8n5cUdLh1scnRRRQAUUUUAFFbWkR2qaLfXU+nR38yTwRRJI8gChlkJ4RgT9wVbtFtLxriGfw7Ba/6LPIkqvOCrJEzrjc5B5XuKAOaore0b7D/AGBqzXNtNI6xx7mSZVyDIOBlDjnr1z7VBBpUGoaYJrASicXSwyRuwYBX+4eAO/B/pW3sW0uXW6/Wxl7VJu/R2/C5kUV0Vzpej2lvd3JN5NFDefZkVZVUsAuSxO09we3p9al/4RZImv5PKvL6OCREhitlw77lDZY4bACn06+lP2E3sT7eHU5inywywlRNG8ZZQwDqRkHofpXQ3fh210xr6e9a4e3hWIxRKRHIxk5AYkHBABzx27VfvtGi1G5a4WO7uIbWwg2Q26/vJCwwBnBxjqeDVfVp2d91/wAH/In6xG6tt/w3+ZxgBJAAyT0FT3Vld2TKt7bTW7MMqJYymR7Zro7XSbfS/FmlpNBc7Lny5Y45GCPExbo/y84IPYVh6y9vJqtwbeOVP3r7/NlD7m3HkYUY+nP1qJ0uSN3vdr7rf5lxqc8rLa1yjRV7R7W2vdTjgvp/IhYEltwXJAyBk8DJ4yanlhs7bVIIpbC9gw372CeVd3PQg7Bx+FKNNys+5Tmk7GVRXS6jaWN/45NikU0IkuzHK3mqQRn+EbRt/HNQ2unaRda5HpcYvNxn8ozeamHAzkhdvHtyaaot2s93Zfh/mR7ZWu10uYFFbFtoyXVi7xuwm+3Japkjbhs8njrxUeoRaVazzW0CXbyQybDK0qhZMHDfLt+Xvjk1Ps2o8zL9om7Iy6K3/EZsVg09be2mjkNnGysZlKgEnqAgyffI+lYK/eH1olDlnyXHCXNHmsJRXqWuwCe71W/j5K6fcWk2OzLtZfzVv0rl5vDempd3elxy3P8AaFrZm4aZnXynYKGZAmMjg9d3bpUNWOOjjYVI3at/S/zOZhgmuGKwRPKyqWIRSxAHJPHYVHXb6ZpthpOpT2Yad74aVLLLJvXy9zRE7AuM8Aj5s9ulR2ngqOeKxga31Jp7y18/7Wif6PCxBKqw2nPTk7h1FNxf9fP/ACK+uU09dv61OMopSCGIPUUlSdoUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABW/JrNkbq41CNJ/tU9uYjCyjy1YrtJ3ZyRjtj8awKmazuktVuXtplgbhZTGQp/HpR0AhooooAKKKKAN7Qb1bbTbtI9X/sq8+0QTQT/vQflWUNho1JB+cVrSarfiJ213xdNqMD2k5ggne6cOzRSRqyiRAvViM59a4utnX/8Ajz0P/sGj/wBHS0AVdO1GOzgu7e5t2ngukCuEk2MMNkEHBHUelaPh+9XS/t1+rxpAYmWKF5laRnyNny8E4PO7AHBrP0jR5tXkuBFNDBHbQtPNLMW2ogx/dBJ69hVKVFjmdEkWVVYgSIDtb3GQDj6gVrGrKLXktP6+8ylTjJNd9zatLyyj8LPHfIbhjfB/KScI+NnXoeO3T8ajm1/7bJeLqNsZYLmRZAkUmxomUYXDEH+HjkVjUU3Wlsg9lG92asWqWkcdza/YZPsU4Q+WLj94rL/FvKkc85+Xv2qxceIo7maVZbHFpLbxwtAk2CNn3WDEHB+oNYVFL207Wv8Al5/5h7KDd/6/rQ0YNQtrPV7S8srN0jt2VjG825nIOcltoA9OB2qlcS+fdSzY2+Y5bGc4yc1HRUOTasy1FJ3J7SS3imJvLdriMqRtWTYQexBwf1Bq3fastxb2VvbQNFDZ7inmyeY5JOTk4HHA4ArNopqpJKyE4Ju7NmTXLdtfh1aKykSYTCaVDOCrn/Z+XK/iTVK21F7XWU1CJBvSbzQhPvnFU6KftJXT7O/z/pCVOKVvKxtS69CloYNOsmtz9qW6EjzeYQwzx90ccj/69VtQv7K9M0yWDxXUzb2f7RlFOcttXbkZ9ycVnUUOpJqzBU4p3Ro3upQX1lbpLbOtzbxLCsqy/IVBOMqVznB/vVnA4INFFS5uUuZ7lRioqyOobxq7LraGz/d6oPlXzf8AUtt2k9OcjHp0qKbxWkjXF2tht1K5tfs0s/nZTGApYJtyGIGPvY9q5yilcwWForZfn5f5I6SPxVAJHupdNMl/JZm0eb7RhSNm3eF28NjGeccHgZqq2s2N3Da/2ppslxPawiFXjufLV1H3dy7SePYjNYtFDbZSw9NbL8WFFFFI3CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK64iO4vdTuUuoXtJrA+XGJQWGFGAUzkYI7gfrXI1dbU2+ySQQW0Fv5oAleINucDsckgDPPGKOgdSlRRRQAUUUUAFbOv/APHnof8A2DR/6OlrGrZ1/wD489D/AOwaP/R0tAGh4ZWIeHfED20rNe/YSHikjwgi3ruYMCSW9iB9TXLVqaHrCaS14s9s1xBeWzW8qJJ5bAEg5DYODx6Gs6UxmZzArJGWOxXbcwHYEgDJ98Ch7/15gthlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaNxpkUWjx30V4s5aXymRYyAp256nBP5VO+g4hnVLktd20Anmh8v5VU4JAbPJAI7fjU32G7HgxW+yz4+1+bnyz9zy/vfT3rYu5ilxeXkKbbCa1aRpyBtmkZNqoD7dNvrk0PS/9dAXT+upxNFFFABRRRQAVs6//AMeeh/8AYNH/AKOlrGrZ1/8A489D/wCwaP8A0dLQBmwRwvbXLSvtkRAYlz947gD+hJqCp4Ega2uWmbEioDEM9TuAP6ZqCgAooooA0dDtDeapGn2VLxQebdrlYTJ7Akj9KZDpd1fz3JsrcBICS4aVQIlz3YkcD1q14WQL4gtbiSWCKKCUNI00yR4HtuIz+FTrttLDXIpZ4N8yxmMRzo+8eZngqTnjtXTGCcIt/wB78Fp/X3HPKbU2l5fiyvp/h+4uNdg0+7KQeZtYt5qcoe6nOG/DNZ93avZz+XI0THqDFMsgx9VJGfauhS+tIte8OzNPH5cNtEsrBs7CC3Bx061z99avaXJR3hfOSGhmWQEZ9VJ/I80qkIxj7vd/pYdOUpS97sv1CxsLrU76Ky0+B7i5mbbHFGMljXW+F/BUsniu1stctoLiC4S4VUt72OXMiRk7SYnJBBK8HFUPAGp2ml+KlfUJxbRT281uLgjiJnQqrH0GT17ZrT8H2C+G/FtrdanqmlojR3KAw6hFLt/dHDEoxCgk4GSCT2rnen3P9TZamDP4O1y3ubOB7SN2vXaOBormKRGZfvAurFVI75IxUdx4X1W2e0DQwyrey+TBJb3UU0byZA270YqDyOCR1rsfCdz4fk8MaDaa9cWhRNYmkkhmkGFBhGwuOoQuACTx68VZmvooPD+hRajqOiC7XxBHcSwacbdEgi2gZbysKen3uccAntVW1s/L8bf5ivpf1/X/ACOa07wBqh1+1stZhS2ja4jjuY0vIfPjRpAm7y9xbGSMHbjkHoa0tX+HsFnLrsdjJcTNbPZ/2dudR5qzsV+Y4HIIIzxyKqNqNvJ8ajqEl3CbX+2fM+0GQeXsEnDbumMd67D/AISnR5PB1zNPfW5vbTVo49nmqXmgS681WUdWUB25GamOsYt9f+AVL3XJf11PNIPCmtXN3eWsNnumsZ0t7hfNQbJHfYoznBy3GRkVau/AXiOxs5rq5sEWGFGkdluomICnD4AYklTwwHK98V31lLp+na14hvrjWtKMeo6taz2wjvY3LRi5DlyAflwD0ODweMDNJNrWlnS7pBqVmWa11lQvnrkl5gUHX+Icj17Uvs362f5FWXNbpc8um0a/g0aDVZbcrZXDmOKXcp3MM5GM5HQ9RVGtabRYo/ClvrMV6JGkuGt5LfyyDGwGR82eeMHp3rJp9Wiehe0+ziuILu4uS6w20WfkIBLk4UdD3/lRpllFc/aZboutvbwmRyhAJPRRznqSKs3o+w6DaWfSW5P2mUf7PRB+WT+NJcD7B4cgg6TXz+fIO/lrkIPxOTWPM3t1dv6/Ex5m9ur/AAJNK0m2vbN5ZGeVl5YRGUeWP9rELj361ctNHsXsbd2RZWa2unMiswDMh+UgHH8h71Bp99aHTrCKW8+yPZXJmcbGPmg4ORgH5hjHOOvWtu3vWn09GhLxwT299J5QbA+9kZHTjNYVZTV/66MwnKafz/zOZtbOyXQnv7tLiVhciEJFKqDG3OeVb0qXSrSw1C8ulEbwxJZySKZ5S+xgOGyqjj2wfxp/h55phPbGRTaxKbl4fs8crOQMfKHB5x37Vesb2O/tb8WcH2Vo7VyzNHEUKkYIJREIPoTke1aTlJc39WNJSaujmJUWOVkSRZVB4dAcN9MgH9KvaFDaT6qqah5fk7HOJZNiltpxk5HfHes6tLR4vtVw1stnazuVZw1w0gwFGSPkYelbT0gzafws07C0tZL6NdQsdIitjne6ahkjjt++Pf2rAt2tlkP2uKWVMcCKUIc/Uq1aUt7pY06B4tNtWumZhLGWnwo/hx8/171Bay6c909zew+XHGAUtYN2JT6FmJKj16+1Zxurt3/r5mcb2baf9fMuyaZYJNo2yOZTeuGkhlmDYQsAOQq9eagsdOt7rxQ9k+5YRLIAinlgucKCe5xir1vrMWsahanUYit3Hcx/Z5IVAATeP3bDjgdj1rJ1e7uZ9Ynaa4lkMczBC7k7AGOAPSpjzt8r03Jjzu8XvY1bTT7bU9OvJ10WdHtZFVUs5Hy+TgqdwfkdeAKreIbIf8JJ9ks4BEXWJViAAwSo69Oc1f1Cb94LbVrjTpJI8HZNNevtJGfUjoe1VL7Vbb/hL4L+3cSQRNESVDAfKADjPPapg5c1/X9CYuV+Zdn+hUvo9PtdSFnskaK3JSaaM/PKw64B4UZ4HHTnmkvLG2GjwajZiaNJJWiaKZw5yBnIYAcfhUl1pobxQ9rcXEcMU0pcXEjALsPzBs9OR+tTa3PJHcQG1Fqtna/u7eISxTfVmUE5J68irT+GzNE9UkzEjjeWRY4lLO5CqoHJJ7Vdn0W+toTLLEhQSCIskyOA5/hOCcHirGm6w66xZy3EMLJHMGIgtY0Y9v4VBPXpV4xQW3h+RortZ45NRjKuqsq4Ab+8Bz69unNVKck0rBKcou1jKn0S/tQ/nxIjR/ejMyb+uM7c5Iz3ApJNFvouscb/ALwRkRzo+1icANtJ28+uKs6zNb3Pi6eWWQSWzXA3OhyCmRnBHtW358EK3wa402OFrmH7PHbmMEoJQckrz09TnrUe0mkn3/4BMqk0kc9L4f1OCJ5JbcBY1LMRKhxjrwD1HcdRS3NpDcaOmo2cXk+W4huIgSQCRlWGSTg8/jW+99aFJsXUPP27H7wc7sbfz7etYsX+ieEbgyHm+nVY1J/hTJLfmcUo1JyV35BGcnq+/wDX+YaZb2MmmyyMtvPfCQAQ3U/koE/vA5XJzxjd+FLqVvYppSSFLe3vvNwIrW485GTH3j8zbTn359KuaZcz/wBj/ar3VbyGIS+SmL6RBwoONojf+dJqOpxrpzGz1y/kuC4Hl/a5HUpg5JzGlDcuf5iTlz/M5urdobJlWOe1uZpmbA8q4VAfQYKH+dVK1NOvrPTIftUSSTajkiPeoEcP+11yx9OgrolsbzvbQuXOk2NvcaxDEruLOFSjSPkq+5Q3QAHqR0rHtns1Ui7t55WJ+XypwmPzRs1p6Jczx2esXEc0iTfZw3mKxDZLjJz1qCwvLSzDX9wWur/cTFG4+VW/56MT1Oe351jHmV09djNXSaev/DIvpo9gnimCwMcrIYN00csmSr7C23KgdOKwbdoFlzdRySR4+7HIEP5kH+VdLpGoQanrtpcSoyahtkWZ1A2SjyzhvZvXjBrnbaxlukLRPAoU4Pm3EcZ/JmGacG02pdl+oQbu1Lsv1NHTbbSdRvhbC2vItys2/wC1I2MKT08senrWNXU33nJdRS2U1jIf7PS2YtexDYduGx84561zM0LQTNG5QsvUo4cfmCQadN3dx05X1L2i2cN3dTNdKzxW8DztGpwZNo+7ntU8tva3ehi/htltZI7kQukbsVcEE5G4kgjHrWfYy3UN9E+nmQXG7CeWMkn0x3+ldFJptxPe2kGoXaGxiUvcGBEijt5B95TtGN2SoyRzmlUfLK9yaj5ZXuZWrWltaeKJbWNBHbJMq7Sx4XjPJ5p+o6P/AMTK4+wS2X2bzD5X+nRfd7dXz+dF6bk+JXOrWUXnTuAUcOE5OAw2sCR+OKNRltrDUri0/suyk8mQpv3TDOO+PMpRcvd72/rqNOWiXb+uplTQtBM0blCy9Sjhx+YJBqXT7dbvUra3kLBJZVRivUAnHFJc3Ec+3yrOG225z5Rc7vruY/pUcE0lvcRzQttkjYMpxnBHSttWjV3cdNy9frptvPcW8NtdeZG7IrvcqRkHGSPLH86m1jS1to7KS1WNVmto2ZfOBZnI5O0ndj8MVLqd3d2c0BdrOZriBZyxsIQQW5x93n61V1PU1vLm0mgDq0FvHGSwA+Ze4x2rKPNoZR5m01sXJdGsheTaZE85voYi3mFh5buBuKBcZHGRnPUdKqXNpBH4bsrpExNLNIrtk8gYxx071pHU7CPWZtciucyvGWS2CMHWVlxycbdo5OQc+1Qancz3fhXTZLqaSaTz5RvkcsccdzURc7q/l9+tyIud43/rRka6bY232GG++0NNeIsm6J1VYlY4Xgglj3PIom0mK00nU/OUPcWt2sKyAkcc546c4qa3u44o7cS32lXElsMQSTRXBaMdQOEAODyMg4pZB/xTGpObuO7aS6jd5IwwBJ3Z+8oOfwoblf5r8/8AILyur+X5nPVr/YLCzsrKS/FzLJeDePIdVEaZx3U7jx04rIrZ024vV0a6liuUCWLI8cckCSYLNjKlgdvrxW1S9japeysPk0eKzh1uOfEstl5flSAkdXAzj6Hoc4qOOxsY9FtLu4juJZbmV48JcLEq4x3Kn19agttRVNO1KK4Mkk14Ew/XkPuJJJzTrDVDHbC1uZ9tvGS0a/Yop8E9fv4x+dRadtf60/zItO3z/T/M1bbQ7T7PbmeFGd4LmQlLgSDK428qcce341zMcbzSrHEjO7nCqoySfSupsL2O83RWt0xkhtp2HmWKopDDLD5ZMDpxgVk6W2oQW7tp81rB5mVLvPCkgHcAsQw/CphKSvd/1dkwlJJ3Yut6N/ZfktCxliKhJXDBgkw+8nHTHvWTWzZw6nYeYLe4sdkoxJG95buj/VSxFZEilJXVtpZWIO0gj8COCPpWsG9m7msG7WbuS2z2qs32yGaUY+URSiPH1yrZrZk0qxi1nSLZY5h9q2PPDLIGKhm4GQF7fzrO0x7C3Zrm+DTvGf3VsF+Vz6sewHp3rc0zxA9/qVmZ5Z4b5rmNWaA7Y54933XAI5GTg4PHB9aio5XvEyquSu0c/ItrBqdwk8Mjwo7KqRyhCMHjkhq2ZdEs4JNH8y2uonvphvimkDAJkDqFXk5/Cq1jK6eKJYoRbrLNcFEnnTd5J3feAJxn61o2V+q66dPUag8klwNzTukn7xejmMpkdOcMDjvUSlLS3YVSUunRHP6rZ/YdSmiHl7BI2wJKr4XJwDgnB9jzVOrGobv7Tut7Kzec+WT7pOT09qr10Qvyq50q9tQoooqhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVrXEFk/hqO6trZopRc+UztKWLDbn2HX2oeCyk8MG5gtmjnjuFjaRpSxbKknjgAcDtn3oegbmTRRRQAUUUUAFbOv8A/Hnof/YNH/o6WsatnX/+PPQ/+waP/R0tAGbAtuba5MxxKEHkj1O4Z/TNQVPB9n+zXPn/AOt2Dyev3twz+metQUAFFFFABRWt4ZQya9brDdvaXBbEMiwLKAx45BI7fWi201L5tSuby88lbU75GWLcXy2OBkDOfw+laKm2k11v+Bm6iTafl+Jk0V0em6NZxeJtPgupXntrlUmi/cgeYD2YbuOh6E1h3iWyXBFnLLIncyxCMg+mAzcfjRKnKKu/NfcEakZOyIKKtabd3NjqUFxZXEttOjjbLC5RlzwcEc9DXb+K9Cl8S/GfUtPjmWBWYSTTyAkRRrErM2B14HTucdKi23z/AALuefUV2lh4Ct9YuNKfSNYaWw1C4ltmuJ7Ty3hlRS+Cgc5BAyCD9RWZq3hy0tPD8esaTqUl9a/bGs5PNtfJKuFDAj5mypGeTg+1IZz1FXtTtLG1aD+ztSF+JIg0pEDR+U/dPm649RVGgAorTaKO18No7xo097KSjFQSkaccHtlj+lCxR23ht5pI1aa8l2RFlBKInLMPTJIH4Go5/wA7Ec/52K97ql5fwwQ3MoMNuu2KKNFjRPUhVAGT3PU96qV1F7bahHDYf2XpayxNZxMzrp6S5Yjklih5qCW38jwiyakJraYXzMIxCM5MYIBBI2j8/pUe1W5Cqp2Oeored4tI03TCLW3na6UzTtLErll3YCgn7vA7YOauz6UdLs/EMatGYtsYjAlVmA8wEZAORx60Oql/XnYPar7/APOxylTLeXKIqJcSqqqyqocgAHqPoe9aVkqW3hye/hhiluRcLExljEgiQjOdrAjk8ZIrXtreOHW4XWFYJZ9LeWaJV2hXKt27ZABx70p1Er6bf5ClUS6HJRyPDIskTsjqcqynBB9QanuNSvruPy7u9uJ0BztllZhn1wTVatTR7W+lEklqlssCkCWe7jjMcf4uDjr0HNaSsldmkrLVmXUkFxNazCW2lkhkHR42KkfiK6axvLa58XabFZxw7IAVaeOFYvObactgAYHYD/GsvS4okstSv5Ikle1RREsihlDO2NxB4OOeDxUe001X9PQj2mmq7fiQf25q3/QUvf8AwIf/ABqizFmLMSWJyST1ro7eKOebQ9SWOOKWW8EUqxoFVirLhgo4HB5x6Vi6n/yFrv8A67v/AOhGnCSvZIcJJuyRWR2jdXjYq6nKspwQfWhmZ3LOxZmOSSckmnwTvbSiSMRlgMYkjVx+TAiui1KxuG0KwWa2tYrq4ZpmkKRW4VQAAmcKM85x1pylytX6jlNRkk+pjjW9VUADU7wAcAC4fj9arXFzPdS+bdTSTSYxvkcsfzNbPiATf8JhOLaLzpsoFTyxJuOwfwkEGrt3Yyvoctr5djPqiuJJooII1khjHYbQMnI5AyRWanFJStuQpxVnbc5mS5nlhjilmkeOP7iM5IT6DtUVbni1YBr05jkkaU7d6tGAq/IOhyc/kKw61hJSimuppBqUU0OR2jkV42KOpBVlOCD6g1Lc3t1elTeXM1wV+6ZZC2PpmoKKqyvcqyvcKKKKYwqWe5nunD3M0kzKu0NI5YgenPaoqKALNvqN9ZxlLS8uIEJyVilZQT64BpZ9U1C6hMVzfXM0Z6pJMzA/gTVWip5Ve9ieVXvYKKKKooek0kauscjKsgw4ViAw9D60yiigB8U0kEgkgkeNx0ZGII/EUyiigAooooAfDNLbyiSCR4pB0ZGII/EUgkcRtGHYIxBZQeCR0yPxptFAEjTzN5e6Vz5QxHlj8g9vSrf9uat/0FL3/wACH/xqhRScU90S4p7okmnluZmluJXlkbq8jFifxNR0UU9ii7HrOpxRrHFqN2iKMKqzsAB6AZqvcXdxeSCS7nlncDAaVyxA9MmoqKXKk72EopbIKeZpWhWJpHMaElULHapPUgUyimMKeJpVhaFZHETEFkDHaSOhIplFABU9te3VkWNnczW5b7xikK5+uKgooavuJpPcuS6vqU8TRT6hdSRsMMjzMQfqCap0UUkktgSS2HxTSwMWhkeMlSpKMRkHqPpTKKKYwooooAKdHI8UiyROyOpyrKcEH1BptFACszOxZyWZjkknJJq22rak8JhfULpoiu0oZmKkemM9Kp0Umk9xNJ7hRRRTGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBsFrT/hFxa/b4PP8AP8/Zsk6bMbc7cZz+HvSxtaf8IzJatfwrO86zBCknACkbc7cZ5+nvWNRQ9Q2CiiigAooooAK2df8A+PPQ/wDsGj/0dLWNWzr/APx56H/2DR/6OloAzYGtxbXImGZSg8k+h3DP6ZqCp4HgW2uVmXMjIBEcdDuBP6ZqCgAooooA09Au7PT9WhvL15x5Dh1SGINv9iSwx+tSG/sobbVIbdp5ReKmxniVNpD7jkBj2rIpyI0jqkal3Y4VVGSTWqqNJRXn+OjM3TTlzPy/DU2xrsEeqaPdJFIy2EEccinA3FSc4/Osq9Fr9oJsZZpIzzmaMIQc9OGOfr+lV6KUqjktfUcYKLuh0b+XKj4ztYHFd7ceONMg+IT+JtNbUSt4piuoGiWF4kMYQmNw7ZYYyMhegrgKKgqx3tj40s7HXNMvbrXPEespazSPIl8AFVTGVXYplbLZJycjjtWGmsQz+BR4ehguJL2TVftSbUBVlMewKOc7s9sVgOjxuUkVkYdVYYIptLyKv1X9f1c3/FdlYWE1hDZWxtLn7IpvIDKZCkuT1J6HGCR2zWCoDMAWCgnBJ6CliikmlSKFGkkdgqogyWJ6ADualeyuovO8y2mT7OwWbdGR5ZPQN6H60E3S0LOs3UN1qCraNm2gRYYWIIyq9/xOT+NLrN1DPcRQ2bb7a2hWKNsEbu5bB9STWdU8NlcXFrcXEMe6K2VWlbcBtBO0cd+T2qFBK3kRyxjby0L1vYQXWgh4nt1vRckHzblYz5e0dmYDrTLkXVto62cptWh8/wA0GK4SR9xXHRWPGB6Vm0UcruPld9TUt9WhFpbQ31mbk2jFoWEuzgnO1hg5GfpU9vqH2mx1ya7lQT3KowUnG4+YCQB7D9KxKKTpxf8AXzF7OPT+tbmhYX9vZKHVL5J8ENJb3giyM9MbCfTvWjpN9YNqc0xE8UjwS7pbq7V9xKHj7i8k+9c9RRKmpJ+YSpphV/RFjbWYBNcvap82ZklEZX5T/Eemen41TSGWVJHjjd1iXdIyqSEGQMn0GSB+NMq5K6sXJXTR2NrqNza3KTedPNt/5ZzeIIWRuO4xzXOWN/8AYmuIpYhNb3C7JYw2M85BDc4IPfmqNFZxpJXM400rmzb6nHLqulRIgtbO1nQqrybsZYFmZsD09AABWfqLK+qXTIwZWmcgg5BG41DLDJBIY542jcdVdSCPwNSpp95JceRHaTtNt3eWsRLY9cYzjmmoxi7oajGLuOsLtLK4897aO4dR+7EhO1W9SO/0qZdauyt2lwVuVu+ZBMM4bs4xjBH5VG+k6hHLFHNZTxNM4SPzYygZj0GTiqrxvHM0Trh1YqR15p2hJ3HaEnc2Ncvdvie4ns7pgjbQZLeTqNoBAINXZz/pq/2R/Y/2D5fL8/yN2O+/f8+euf0rJGg6gXWMxxJK2MQvcRrJz0Gwtuz7YqhJG8MjRyoyOpwysMEH0IrNRi0knsZqEWkk9kXdbmtp9ZuJLKR5IWI2s7MSeB3bnHpntVCinywywsomjeMsoYB1IyD0P0rWKUUkbJWSQyiirkWkalNEskOnXckbDKukDEEexxTbS3BtLcp0VNc2lzZuEu7eWBiMhZUKkj15qWHTZ54VkSS1Ct0D3cSH8iwIo5la9w5la9ypRVq7064so4pJxHslzsaOVJA2OvKk+tVaE01dAmmroKKuRaRqU8SywafdSRsMq6QMQfoQKjexuY7eSaSFkSOTyn3cFXxnBHXtS5o9xcy7leirUGl6hdRCW1sbmaMnAeOFmB/ECkTT7t2uFEDK1sheZX+UoB6g/Wjmj3DmXcrUVYttPvbxS1pZzzqpwTFEzAH8BUg0jUDc/Z2tJY5thkCSrsJUck/Nj0o5ordhzR7lOipre1muvN8hN/lRmV+QMKOp5qGquVcKKKfDBLczLFbxPLI33URSxP4CgBlFX/7D1b/oF3v/AIDv/hVPyZPO8ny283dt2bTu3dMY9aSknsxKSezGUVPc2V1ZlReW01uW+6JYyufpmnS6fdQ332N4GNxx+7T5icjIxjOeDRzIOZFairVxpl/aReZdWVzDHnG+SJlGfqRUdxazWvl/aE2ebGJU5Byp6HihST2YKSexDRRRTGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBuXF1Lc+DY/NK4jvdqhUCgDZ6AAVJY3d1No9/PqU7PZLD5MUTn5TLxtCr0GBzxVL+0bT+xPsH2SfPmeb5n2gff246bOntn8afe6tZ3lnBb/Y54lt49sapcrsDd2I2ZJJ680PqC6GTRRRQAUUUUAFbOv/APHnof8A2DR/6OlrGrZ1/wD489D/AOwaP/R0tAGbBJCltcrKm6R0AibH3TuBP6AioKnglijtrlJI9zyIBG2AdhDAk+3AIqCgAooooA09GSxcXIvFikuNg+zJPIyRs2edzAjHHTJArU0MfZfGcUU2mR2znIEbM58s7Dkqd3IPvkYPHrWFaXiWySJLZW90rkH98GBUjPQqwPfpn0qwdduzrEOoqIkkgAWOMJ8iqBgLj0x75966YTjHlfZ9jnnCUuZLqi1o0NhqWoXTXdkkcENnJL5UDuOV5yCxJz+ntS6eljqaXudOiga3s5ZV8qSTBYY2n5mPTn2OelUotWa3uJ5LS0t4BPA0DIm8rhupG5ic/jj2qHT7+TTrhpI0jkEkbRSRyAlXVhgg4IP5GlGcVZO3XoNwk7teXU2rDRrO5t9MklRgHhnmn2McyCMnA9umOKzUvbWS+tmj0u3i2ycoJJSrg4xnLZyPYj6VI3iK7Etm8EUFuLMMsSRodpVuqnJOQffnmqlzfLN5fkWVvaeWxbMIYljx1LMfTpVOpBNOPTy9CYwnd83Xz9S/4rmSTxFeIltFEyTMGdC2ZPrliPyArFq7qWpHU5vPltYIp2OZJItwMh9SCxH5AVSrnm7ybNqacYJM0/DX/I1aV/1+Rf8AoYrt72wTU7G7uASsepzWkMjDqJElaN/5A/jXnljdyafqFveQhWkt5VlUOMglTkZ9uK008U6hHpUtgnlCOS6+1B9p3RvkH5ecAZGcYppqyT/rY4sTQqVJqUPL87/5Go+k6ZqX9q29nZCyksLmOKKVZHYyK0vlneGJGec8YqedLCOw8UWGnWa2623lQrJ5jFpMTKpLbjjORngAcmsO88TXV1DcJFb21o11IstxLbqwaVlOQTliBzz8oHNOuvFFxdWl7D9is4mv9puZYkYPIwYNu5YgHI7ADk8Uk0tyfY1m1fa667Wcfv2Zt6toOk2bajZGO0t/slvuhujfq00sqgEq0e/+LkYCjGKmm8KaAnhU3aXMv2rcxCGeHcMRg7S2/Ycfe2j58HGOM1zN1r7XqyNdafZS3UkXlvdsj+YeMbsbtu7A67c1m+fMbcW5lfyQ+8R7jtDYxnHTOO9S9mjpw0KkF+8d/wDhv6/yI69MsfD/AIeuNT8OaK2jqZdW0r7RPeG4l3pIUcgoA20cpkggg57d/M66K28aaja6xpWpRw2pm0q1FpArI21kCsMt82SfmPQjtT6W/rZnT1/ryOssPCOhW1noUGqQaeU1K1Nxeahc6qkEtvvyE8uMyLkLgE5Vs5PpVfw94Z0LVvDtzqdxYyn+wJJPtX2d3KamgUlcHcdpBGW28bTn6czB4tkW1s4dQ0nTdUNjlbaS8SQtGmc7DtdQyg5IDA9T24p9p421PT10pLCK2totNZ3WKNW2zs/DtKC3zEjjtxwMUnrf+v6t/Vw0/r+upteGtStF8C+LHOiWLKv2djGzz4cNLwpxJnC9sEH1JrkrK906Ka7e/wBKFysyMIUjuHjFux6MOpbHoSffNWtO8TS6a2pImn2UtnqQAnspVfygA25dpDhxg9Pm+uat+HtZttJXVbx5IY/tVvJAmnRxM27cOPmbOEBP94scd+tHn5D/AMzmq0NEtkuNVjM4/wBHgBmm/wBxeT+fA/Gs+rlvf/ZtOureOP8AeXO1Wl3dEByVAx3OO/aplflsjOabjZFiyU6z4g827PyO5mnPYIOW/TirenXbX+o6zdP1lspmx6DjA/AcVmWl/wDZLO7iSPMtygj83d9xc5IxjvxUFvdXFpJ5lrPJA+Mbo3KnHpkVm4N3XyRDg3f8CzoiM2uWRVSQtxGWIHQbxz+tT3SW669K1veiLZKz+ZcxEAMG6AJuJ+vFNttcvhe273t9dzwRzJI8bTM2QrA9Ccdqri6QayLvDeX9o83GOcbs/nTtJyuwak22+xtSvotzfG9upoGmdt8ipPMsbN34MBIBPbdWTrEpur97t7u3uJJjlvIV1Ceg+ZR/WtS711Li8mmi1zWIUkcssax8ICeg/e1l63fR6lrNxdwBxHKQQHADdAOcE+lZ04tNen9dP6sTTi1L+v8AIoV0d7aQ62UntNQtlFrZRiZZFkBXaMHohB5PaufhkWKZXeJJlHVHJAP5EH9a0oNbW1SZYNLslEyeXIN0x3L6cye1aVE3rHcuabacdzPuIUhk2x3EdwMZ3xBgPp8wB/Sta+NnqFrp+3UreFoLVYnSVJchgSf4UI71nTXcMmzZp1tFtYMdjSncPQ5c8fTB96l/tC2/6BFl/wB9zf8Axyhpu2/4A03Z6/gV57eOGRFju4Zw3V4w4C/XcoP5A12FnHcPo9pDBPd+XCrBZbKS4jWTJzniA5/OuSnu4Zoiken20DZ+/G0hI/76cj9K0oNS09NOtov9TNGpErf2dDPvOSQdzEHpxUVIuUV/X5EVIuSX9fkTeILVlhje5u7neudi3kkzlumQu6FQPzrna0tTvo7q3hjiuXkWJiVjNlHAq56kbGOelZtXSTUbM0ppqNmbGh2YikGrXwKWdq28E8ea4+6i+pz19KnjkiuvDV7NeyyR+ZfB8xxh8sVY9Cw4rGnu7m5SNbieSVYl2xh2JCD0HpVhL2NdBksirea9wsoOPlwFI/PmlKDevp+ZLg27vcsQ2Fpb6fZ6heXUy+dI22OKAPjaR1JcVfhvI9QvfEN3CGWOa1dlDjBA3L1rHi1e7htEtlMLwxklFlt45NpPXBZTVu211ha3kN0q4lt2jjEECRgMSOSFA/u+9TKE3dsmUJPV/wBK5Fo9lFfymJ7W4lIOXlSdY0iXuWJQ4HXnNbFldwXPiQx2RY2trZSQQljywCH5j9SSa5kXVwLU2wnl8gncYt52k+uOlW9Gv4tOvmmnV2UwumEAJyykDrTqQck35DqQbTZJo5uYDLNbrZyJLG0Lpc3KR5U4zwXU/jVg22VIGm6MCR1Go9P/ACNVTR723s5bn7V5gSe2eHMahipbHOCR/OmGLSsHF7eE9s2af/Hack+Z/wDBG0+Z/wDBKk0TQStG5QsvUo4cfmCQadbQme4WMFBk875FQY+rED9aiqe2uI4C3m2kNznoJS42/TawrXWxq72Ohk0G1XULycfZhpzRuLR/tibWkAGADuz19aytHuo9L1ZjdNtGx4vOiIfyiRjeCDzj2P0p764sljHaPpdkYImLomZeCevPmZrOuJkmkDR28duMY2RFiPr8xJ/WsYRk04zMYxk04zNKW4trXQZbFLpLySadZQY1YLEAMZ+YA5OccDoOtax/5KZD/wBdI/8A0WKzNUudJ1PU5rw3N7F5pB2fZUbGAB18welZ89yy3/2i2u7iRxgrPJ8kmcezH+dSo8y82n+Nv8ieTmXm0/xsTTR6eLoeTJd3LGTDReUsRP0bc3OfarPiUoZ9PMSsqfYIdqs24gYPU4Gfyqodb1Ugg6neEHqDcP8A40uqX0d81oYlceTaxwtuA5ZRzj2q1GXMrmnLLnTZQooorY1CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAt3Gl3trZpdXMDRRSNtUsQDnGfu9Rx7U59IvEt3mMaMqKHcJMjMinuVByOvcVZP/Imj/r//APadSaI0LW17FBGy3bWkn713ym0ckbcDBx3JP0ofX+ugdjFooooAKKKKACtnX/8Ajz0P/sGj/wBHS1jVs6//AMeeh/8AYNH/AKOloAzYJ447a5jePc0qBUbH3SGBz+QIqCp4LhYra5iKbjMgUN/dwwP9MVBQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBd/te7+w/Y8w+R/d+zR9cYznbnOO/WnSazfSxSxmSNRMMSNHCiM49CygE/nTrjTIotHjvorxZy0vlMixkBTtz1OCfypYNIaXRbjUHlEYjGY49uTINwUnOeACw+vNAdjNooooAKKKKACtnX/+PPQ/+waP/R0tY1bOv/8AHnof/YNH/o6WgDNgufJtrmLZu89Au7P3cMG/pUFdB4dtLLU7HVLa5sozLb2MtzFdK7hwy4wMbtpH/Ac+9c/R1DpcKK2NC0FtZW8czRRrb27yANPGhZgOAQxGF55bp2yKuaf4ZiuvD2pXMsx+3Wsm2JIpUeN8IXYZXOTtVuh7U7MwliKcXZvt+JzdFb2o+GpY9RaHTQXijtoppZZ5URU3qDyzYUcnAHWqa+HtUa/nsza7JrdPMl8yRUVF/vFyduPfPNFhxr05K9zNoro9W8NzJd2FpYWuJm09bi4/ejaDltzlidoGAOc4/OsmXSL6DUYbGSH9/Ps8kK6ssm77pVgdpB9QcUWd7DhWhNaMpUVZ1HTrrSdQlstQi8m4hOHTcDjjPUZHeq1I1CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA3vsF3/whik2s+37X5pIjP3PL+99PfpVz7Rp97p2pvbS3KQxWscSRNAvyKHGOd/OT16da5Wih6gun9eYUUUUAFFFFABWzr/8Ax56H/wBg0f8Ao6Wsat+//s/UNI09xqsMU9pZeU1u8Uu5mDu2AQu3ncO9AE3gg+Vf6ld4Be102eVN3K7sAfMOhHJ4PFc7NM087yuEDOckRoEX8FUAD6AVOmp38dg9lHe3CWjnLW6ysI2+q5waq0PcOht+GJYln1CGWaOFrmwlhiMrhFLnBALHgZx1OBWlot/HoemItxNAZItWiaSOOZZN0RjYMRtJBGGxkd65KiqTsc1TDqo3d6M7/X57G8XVtM0++tWdltWhc3CKkyou0rvJC5Gc4J9agvLy0u7S90m3vrczjT7WASvKqxyvE2WUOcDvwc4OK4eilcyjg1FJX2t96t/kd+1/ZQL/AGd9osbqWTR4oAzznyS6OS0ZdWGMjocgdOxrn9Yma6l0uyvW0+1ghXaDZSGcQoz87jubJHJwD0NYFWLG+n067S5tDGJU5UyRLIFPqAwIz79qd7u7Lp4ZU3dP/h7WLOv6T/Yeu3OnC4FwIGAEoXbuBAPTJx1rOp808tzO81xI8ssjFnd2yWPqTTKhbanYwooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDWuILJ/DUd1bWzRSi58pnaUsWG3PsOvtU2rWX2K1i8vSAImt4y12RKfnKgnndt69sVHutP+EYFr9vh8/z/P2bJOmzG3O3Gc++PeltZLTTIL1kv0ujPA0KRRo4znu24ADHXgnmh9f66Aun9dTGooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK3Li5luvB0fmlcJe7VCoFAGz0AArQ1O3aN59OsNQeL7PahjaKmI3XaC2TnlsEnkfjQ9AOTooooAKKKKACiui8OQ3MulXo0zT4b6+kureKJHtVnbBWYkKGB/uj8q1zpXiG1jn/4SHw7FZ2slrcBZZNLji/eCB3XDBAQflzx6UAcQqMysVUkKMsQOgzjJ/Eim10Gi3MUXh3Vw9lBNtSMkuzjfmQcHDDp7YpljpsGs6bi0txFdx3SrJsZiDE5wOCT0PH0Nbqi5W5Xq1+tjH2qV+ZaJ2/AwqK6W6i0i3sbu8t9OSZVv/IhV5ZNuwL14YE5xnr3/CrMugWdp/aE6QQzbJY0ghurkRIoZA5ydykkA4Az780/q8nqn+f+RPt49UcjU1zaT2botwmwyIsijIOVPIPFdDdabpdjHqF9EkV5GnlCGHziyIz5LAshyduCOv51fvNPtbuSW8aCOQW9hbiGCe4EaZYY+ZiR0HuM1X1Z2euv/D/5aEvEK600/wCG/wAzi443llWOJS7uQqqBySe1T3thPp83lXPlB+QVjmSTaR2O0nB9jXQ2kFlZ+LtL+zRW0ouPLLxLOZRbybsHDK3PTIyT1rD1iZJtUn8u2ig2yMD5ZY7juPJ3MefpionTUIXb1u191v8AM0jUcpWS0sUaKvaOLE6nGNV/49sHPJAzjjOOcZxnFW50+yahZvLpNvErHjy5XeKYZ6ht56ezfWpjScknfcqVSztYyHR43KSKyMvBVhgim11F8ltqHj/7JNZxLG14UkKM+ZQT3y3H4YqKyj0y78SRaYNNQQ/afL8zzZN7KMg5+bHPsBiqVFyas1q7fl/mR7ZJXa6XOcords9Jt7vT3+XbK2ox26yZPyq2c8dKr6nNYwXc9pbaZGghl2LK0shdtpwd3zY5x2AxU+zaipN7lKonLlSMxkdApdWUMMqSMZHqPyptdB4luYnh09FsoI2ayiYSK0mUHPyjLEY+oJ965+lUhyTcexUJc0b2CiiisywooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0/7RtP7E+wfZJ8+Z5vmfaB9/bjps6e2fxqV9dVxJOLUi+kg8h5/N+XGNpYLjhiOOuPaqVxpd7a2aXVzA0UUjbVLEA5xn7vUce1PGj3bxPJH9nkEaGRhHdRMQo6nAbND6gUaKKKACiiigDV02608aReWOoyXMXnTQyo8EKyfcEgIILL/f/Sr0cel6KPtHn6hI91YzCBXtY1VhIjxgkiUkDOe2eK5ytnX/APjz0P8A7Bo/9HS0AUrDUnsEnjEMU8NwgWWKUHDYORyCCMH0NX9G1GLSxe3yTRxzSRPFFaoHJBYjByRjA+pPFQaHo6as1409y1vBZ2zXErpF5jEAgYC5GTz6is6URiZxAzPGGOxnXaxHYkAnB9smtI1JRt6f1+pnKnGSZr2eq29r4ca2eGG5lN2JfJmVsYC43ZUjv2z+FQf27cyTXTXccN0l0weSKUMF3DoRtIIwOOD0rMopurJh7OOrNJNZaNp1Fla/Zp1VXttrBPl6EENuz755yc1LL4juZ7l5JoLZ45IVhe32ERsq/d4ByCPUEVkUUvazta/9f02Hs4b2Ly6oYtStry2tbeBrcgpHGrbSQc5OSSfzqpNK088krgBpGLEDpknNMoqXJtWZSik7ontLkWsxdreG4UqVMcykqc/Qgg+4NT3eqy3UdvEkUVtDbZMUUQOASck5Ykk9Op7VRooU5JWQcqbuakmvSyatDqQtLZLqOQSM6h/3jf7Q3Y/LFU4r6aDUlvoiFmWXzRxwDnNV6KftJXvfzEoRStY1bjX55bU28FtbWiGcXH7hWB3jPOSx9entxior3VvtyyGSxtEnmIMk6Kwdj3ON20Z74ArPoodSTVmwVOK2ReudUa7soYLi2gZ4YxGk+GDhQcgcHaeuOmao0UVMpOTuykklZBRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGsf+RNH/AF//APtOnWzfYfDFzP0kvpBAn+4vLH88Cqn9rXf2H7H+48j+79mj64xnO3Ocd+tQS3c08EMMr5jgBEahQNuTk9OtD6h2IaKKKACiiigArZ1//jz0P/sGj/0dLWNWzr//AB56H/2DR/6OloA0PDJhfw74gjt1kivRYlnmZgyNGHXKhcAgnjnJ+grlq0NI1ibSJLgxQwzx3MLQTRTBtrocf3SCOnY1SldZJndI1iVmJEaE7V9hkk4+pND3BbDKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0bjTIotHjvorxZy0vlMixkBTtz1OCfyqeXQVj86EXe68gg8+SLysJjAJAfPJwfTHvU32C7/4QsH7LPj7X5ufLP3PL+99PetS5WbN4ki40v7DiK8xy+ANo8zq2W425/Dih6X/roC6f11ONooooAKKKKACtnX/+PPQ/+waP/R0tY1bOv/8AHnof/YNH/o6WgDNg+z/Zrnz/APW7B5PX724Z/TPWoKnga3FtciYZlKDyT6HcM/pmoKACiiigDW8O6L/bmpi3aVI41VmYmVFY4UkYDHnkc4zjqa0NC8LR6lHqcd1MBc28SmD7POkiM7ZwCVyDyAOD3ql4Tnht/EkD3MyQxskieZIcKC0bKMnsMkc1e0e4Og6dqhknt/tKtbSRJHcI+/bJkgFSQeOvpVWV1/Xc4K8qqlKMH/Lb79f+CVLrw7IWsE01XkeexF1MZHVVj5OSWOAq8Dqaqjw/qZ1BbIW2Znj81cSKUKYzv3527ffOK7TXL7TLqa8sNPvrcC701BA/mqEDLKz+WWzhSRxyRVFL61jt4dJN7AbkaRLbmbzV8sSMwcJv+70GM5xk9aGv6+//ACMoYmryrT+u/p0Mq+8NTLY6LBZ2m+/u1lMnlyh1cBvlO4Erjb3BxWVPouoW8kSNbmUzIzxm3YTK6rncQyEg4wc+lddZXlnplppdlcXdlNI9ldW7Ym3xxPIwKh2Q8A9CQe/XHNZtxrV1pUWngW2mIlvJK8UNleO5UkDlnSUkDOCBuGdppySNKNaq5cr2u/ze2voYF9pV9prYvbZ4hkDdjKklQ2Nw4zgg496gt4HuriOCMxq8jbQZZFjUfVmIAHuTXQ+LvFr+JpkyjbI9u13Zg33eRtDFPvFjkDOMc1zVQeh0O1vfASaf4z0vSpruOS0u5bWKR4ruFpgZFUsQgJIGScEgjpyc8y674DtdMh1+S2kuphZtaNYcqfNSYkfMAvJBGOMcirt9JayfEjQNfi1GwfTmksQ0gvIw0RVUDb4y29cbTkkY963ofFmjHwe9xdXsDXdnq0UbR+YpkmgjufMVlXqyhXYcelN20Xm/uuhX92/kvvt/XzPNNS8I63pFnJc31mqxROsc3lzxyNCzDIEiqxKE/wC0BW3p/gi4tNB1+616xVJbWwSaBftKl4HZlxvRWypKk8OB344rXuLux0RfFd7capZXserXkL2cdtcpK8qifzSzKpJTC8fNjk4qxe3FnHdeNdWfWNOuINUgV7OJbtDJMDIrbSgO5So4IYA9cdDS3jr2fy0H1+a+ev5HD3fg7XbHTnvbqx2RRxLNInnRmWNG+6zRBt6g+pArVufBltD8NoddWeX+0srPLASCgt3do1YDGc7l9ehrpdc1j7bq+r6noa+Glt9VsjE11cagy3DIyKpjMTTfK4IA+4BxnOKnm17w5c+Ir7w7FLstn0j+y49Qe/j+y5jTcrY2DHzjGd+DnpzSd7ef+V/+AC1s/wCun/BOBh8E69NbWtx9lhiivEV7Z57yGITBs4C73G48fdHI4yORSQeCtdnsre8FrDFbXWPIluLyGFZDkjALuMtlTx19qveNr+G60zwvBb3UU4ttJRJFikDeXJubIOOhwBxS+K7+3ufCHhK2guYpXtrOUSxo4YxMZOjAdCQB1pv9bfn/AJBrovK/5f5kT2dlpfg23vLjSre5vZLyW3kaeSX5QoHQI6jrn1qHTPCkmo+GLzVFuLZHikjSJHvIYx8xbJfcw29OAcZ7ZqS9/wCSZ6Z/2EJv/QVo0IR3fg/WdNS5toruWa3ljS4nSEOqlg2GchcjcOM1pTSbknvZfp/wRdF8/wA2ZNxoWp20aSSWjtG8AuQ8REiiMnAYlcgDIxzV1fBmutO8Rs40ZJVh/eXMSBpGXcEUlgGbB6DJrs9C1jS4/Dmj2d9d2iS3DPp15ulXMcI80hjzwMupz0OKr61e2vidoPsepWds1nq87yCa5SIGJmG2VSxAbAXHGT045rqVCl3v/wAOv0d/vFfT+uz/AFRzVvoVnY+HZdW19Lst9qNpDZwuIX3qMuWZlbAHTGOtVY9Bl1me7n8N2s72Nvs3tdTRhosjks3AxkN83AAHOK67V9bh8Q213/YWpRWd7a6rJdW7SXC2plidQu5XYqM5GcZBwaTxFrdjd23jE21/DI1y1mkeJBmbZgPt/vAEdRx3qfZwau9rL56a6+t0V/X4/wCRyI8L6pucEWgRFVjK1/AIyGyBhy+0n5W4Bzwalg8F6/czTxQ2GXt5RE4aaNfnIyAMt82RyMZz2q94XW0bQdR8l9MXVzLEITqflbFiz8xXzflznGepx0rtp9a0r+1rUjVbGRU1GxYyJKiLtWBgzY42gHjtjpxThQpySbe7X4/5dfMm7/P8DlNC+H8l2uow6x5ltdR2yyWYimRkd2ZlAYjP8S4wCCDWVqHheVLGyn01JJd2mfbrve6jyxvZTjpxwOOTXYTeILOz8Meba39u1zDbwskaTLuLLds+MZ645+lT63qej3GsXFtpt/Z+Xe6DJFCxuFVEkaVpBGzE4U445Iq3SpOnpvr/AO3W++xS31/rY4Cz8J61f28c9raK0UsRmV2njQbA+wsdzDHzcc0l7oeo+HJoptZ02J0LsnlSS7lLADKt5bhlOGBxkdR2rszdWFj4QWwfU7GW4j0oxssVwrfObkNtBB5IHp6ZHFUfHmo2V5p9wtpeW87HWZpAIpVYlDGgDcHpkHn2rKrSpwg3F6//AG1vy1FG73/rS5g+KLKzt10iawtEtftlik8kcbuy7yzDjexPYd6zdV0e+0O9+yapAYJ9gfYWDcHocgkVseLP+PLw5nj/AIlUf/ob1n+ItGj0PUIoILwXsU1vHPHMIymVcZHyk5Fcj0+9ldvRfkjKq9JZRQ6JDdSFvPuJWEagjbsXgk8evH4GqsED3NxHBCN0kjBVHqTWjrTCfV1srT547YLbRAfxEdfzYmok/eSRnJ+8kQ/Yok0VbudmWWabZCM/LtA+ZjxnqQKu3Gj2sWji5WRs44mPm+W59BmEDn/eqvrzol5HYwkGKxjEIx0LdXP/AH0TWlc6rZO93eJclvtNmLdbTY2UbAHJxtwMZGDnmsm5OzXX+kZNy0fcbrulWVnaXr20OxorxIkO9jhTHkjk+tU7y10zT4rPzYLuZ57ZJmK3CoATngDYfT1ra8VTSyadfLJI7rHfoqBmJCjyug9Ko2t066At9fhbpImFtFGlvCSgAyNzsjED0GKypyk4Jv8ArQzpyk4RbKcdhaTeG5LvelvKt2UVpS7ZXZnb8oIz74FY9dFqc32nwtHPCnkwNdf6p0UEsFIypQKpXHX5eveudroptu9zem202zZ0m3s5dKuZJIrSa7WRBGlzc+UNuDk/fXPapZ7a0GjXkk9tp9vcJs8j7NeeYzZb5uPMbt7VXtwh0eS7Om2UiQOsbs7zB2JzzgOB29qdqF7pcd4y6dplrLBhcO7T5JwM/wAY75qHdy0v/VvMjVy0v/XzKdiLSVkhmtbiaaRwq+VcKgOeAMFD/OtKTS7GLVNXt4d0sdpbM0bO+SHBUE5GM4JIqtp99baVb/arfMmpNlY8r8luP73P3mx07CtOz1GG5a/vrQS2t8bGQzmPhS25fnUg5BPcUpuSba2FNyTutv8AgmZplpbtpd9fTQfant9oWEsQoDZyzbcHAx6it7TNGtJZ9LvDpFxtuVZpFDboY8DAJDKTg9eWrn9Ge8n12MwTf6RIWJeWV13cEnLKd3btWzZ6nYprEV7e3OnuyHmVTePJ0I435H51Nbm1sTV5rtIw9M09b++kEzGO3gRpZmUchB2HuelME2nPNNJNaSopI8qGCXaFHfLMGPp29enSrmguJZb+yU4e8t2SI+rg7gPxxim6DZ20l1NNftFi1AZbaWVY/OfsuWIGB3rRys3foaylZyuV9Z09NOvxFEzNG8ayoHHzKGGcH3FV7SznvpGS2QMVUuxZgqqo7kkgAfWrl3f3sWpTT3BtJZp8Mx2xTqPQA/MBU9jfJc22owXjRW5nhULKluFRNrg/MEXv0zj0p3modx3korrsVDoeoi5W3FvuleIzIqOrbkGeRg89D9e1B0a9Eqx7YSW3crcRkLtGTuIbC4z3xXRLJFYalZB7hV2aQyh3O3LHfjGeec8Z56cVg6F9m+2ym58kuIHMAuMeWZMcZzx69eM1KqTab7f8EiNSTVyMaLftMI1iRiYzKHWZChQHBO7O3g9eeKdNpl1pTpPqNmjxB9rRtKOTjodpyOOQe/vW9JdQppkcc93ZtMLC5V1gKKqsxUhcLgZ+nXnrVbX7q3m0+4WGeKRmuoWARwSQIcE/nxUqpNu39b2JjUnKVnsZGrWKWc8UltuNrcxiaEt1APVT7g5FaH2WxFnbGwgsbstGDM93eeU6v3XbvTAH459aj1maSxTTLOOR0uLODLsrYZHYltuR0wCK02uDaxQC+1q9jlliWXH9oy9CPaE4+mTQ5S5VYHKTjEwtahsYbtBp7LzGDKiPvSN+6q3cdPX6ms6tjXL5ZTFFaapd3kLIGkWad3VXyeBuVc9u1Y4681tTvy6m9O/Krm1pNppepXawPbXkYVGeWUXKkKFGSceX/XvVa6tYE0GzuY0xLLNKrMWJyBjHt3qWbUbW005rLSBL+/A+0XEoCs/+yACcL+OTUs1zPB4Qso4Z5I0lmmEio5AcfLwR3rP3uZNd/wDMy97mT8/0YmhafZ6tdJbNa3ZYKWmmS4UKijqdvln8s1FFaWsmi6ncojEwyxiFmblVJPXHBOMdqlS8v5dFeSyaKytrN03pBuVpHJ4Ynkk8dzxxgUNrC3Wj6it0Y1up2iIEcW3zNpO5jgYzzSfPdtd1+f8AkL376d0Ytaws7C30O0vbqK5mkuHdSI51QLtx6ofWsmtrTp7uTRbrbLD5NiokSOW1jlyWbBwWBxWtS9ka1L6f1/WomnWFrqFpqjwxbDFGjQ+fOBsJbBy3yr+YqG3sLeLTJb7UPMdFm8iOOGQLvbGSd2CMAegOaki1rOm31vcogaeNVj8mBI1BDAnO0D096ba3Nvc6E+nXNwts6T+dFI6sVORgqdoJHr0rP31f1RHvq99r/hYtWmj2w14QSZntZbVriIsSpI2EjOO4I/SqehQ2k99It8IWQQOUWaXy1L4+UE5Hf3rc07VmudZSzs7iY2MFk8SqWIWTah+Yr05P9KyPDz3UlzJBDeXFvCsbTOIrlohwOTwrdvapvK0r9l+pnzTs79kSPb/u2/4l2jrweV1DJH0/fVR0mwS/upBM7JDDE00pUZbavUD3PSt9NRsyT5niDUFG04KX0zHOOODCO/vWJp95P/aD3c2oxRy4w5uw8nmqRgqcK2RjjnHtTi5tPp95cXNxf/BJGsLS401b6zE0apcLDLFM4fOeQQwA9OmKh122hs9du7e2TZFHJhVyTgfU1ellilgitoL7ToYEkEnk26T5kb1JdTk9hk4qt4n/AORnv/8Arqf5U4N89n5/oEG+ez8yvpFgNS1BYHkMcYVndlGTtUZOB68VPJZWdzpVxe2Anh+zOquk7h9wbgEEKMHjpz9az7e4ltbhJ7eRo5UOVdTgitPXpLqC8fT5p0eOMhyIoFhVmZQclVHJ5xk1cubnVn/XUt83Po/66lifSLV/F1vpyK0UEojzsbJGUBOCc96XTNNsL/VooordliWUrKJ71CWAB6KArflmqmoawZdcXUNPLxMioELqMgqoHTkdqt2+s20M8c5uWEincQulQrk/7yupIrJqpyr089zJqpy/Lz3KWq2kFtZ6a8CbWnt98hyTubcRnn6VJo+iHUbS5mkLJhdlt8wXzZeoQZ68A/pU2rxOy6QsM0ciG3zCZUWLA3H725iv64qO8h1O/eM3FzZYiGI0S8gRYx/sqGAFUpNxtfv+ZXM3FWZjujRuySKVZThlIwQfSupg0iBNNs5X0yW7aaESF4LOWTHsSJlGfwFZWpS6g/kz38tpM8ZADpJDI7Y6btpJYcfxZrXWa0htLZ782cUk0QkA8qMZByM4Fq2Oh4yaVSUnFW/AVRyaVvwMrXbeCBrf7Pp1zZZU7/PhaMOc9QGZu3vWRW3rd5aPDFHp8kEm8Hztlug2kHjDCJD+lYla0r8uprTvy6mxo1np2pXkVrLBdKdpaWZblQqgDJbHl9PxpkVpbPoGoXSoS8U8axMWOQpz+B6DtU1vq9vosKx6Uonmkx9pmmThl7xqP7vqepq5dXkd34Z1A20t01us0PlxXD7vK65VTk8enSspOSd+mn5mLclLy0M/RLG11S8hs/sl1JKx+eSO4VVVe7Y2HGPrVgaRbTafqjWq4e3uUSJ7mURkLznOSBnj606zn3+GZpHDR20Dojw2eEeVjyHkc7jj2xjOMYqa9vX1HwtcXKmRR50cchuNrNJgHbh1Vckd8gnGOaUnLm07r80JuXNptcr6TYWT2Pn3KBwx27rhVRQR1Ckzpu/KpBotu/8AasaxlZoI0ZBORCsZLdiZCCMdCTUegys1hdC6kjNnbFXxNtIQscZAMUnX2Aqa+vLB7G/dNSkkubhVGzeXEmGHHMKbQO2DSk6nO0v62B+05mvP9V+hzbKUYqcZBwcHI/MVa02BLq9S3e3luHkO2NIpljOfqykVUrU0Xz7a4W8t47KR42+T7TcrHtI7gb1J/UV0ydonRN2ixRBYvb3Esen3m23wJGN6nyknA48vnn0qLTbGCe1u7u7Mnk2qqSkRAZyxwBk5AGepwa3rvyorQRWFtpLi6iVrtWvxxICTgfvRwPasTSUuotbjs4bhImnYQuy7ZkIPqOVYVjGV4u39fmZKV4tr+l+Jag0q0luNKuIhJ9mvJ/KeGV8spBAPzADIOfQVFaadaz6tqMcwkENrHLIqxuFJ2ngZINMGpyxa7byXrmSOzmACxxqgChudqjAGafp2rQ2msX10zTxLcRyqjxKC6Fjweo6fWj37fILTV/66/wCRWjt4r+6ji0uxu2bOZFMnmkrkc/KgxS67axWWu3dvbJsijkwq5JwPxqxLc213LG1xqepXkiH92J4hgHPqZGwPwpnif/kZ7/8A66n+VOLfOl5P9Cot89vIh0Sxj1LWIbSYuEk3Z2deFJ/pWtY+HAI7b7bbXAnnS4/cyKVOVTKkDg9fzrJ0S9i07WIbq4DmNN24IATypHcj1ra0q8tHWGys3nk8mG6dnliCZ3R9gGPpU1nNXttb/P8A4BFVzT02/wCH/wCAUNQ0qGDVNMtGRrXz4ITPvzlWY4YkHp9KvQaZaXeoajYjR5k+xxsyPDI/msV6A5yvzey/Ss7xB/zDP+wfF/Wr7XEiaXawalc2TRyxLIkdxNdtlegJCnaOnak+blTuS+blTuVfEdrFaRaasVo1qzW2XSQDfncfvHAyfwrDrY1+7tblLCOzeJhBb7HEIcIp3E4G/nvWPWtK/Jr/AFqb0r8iuFFFFamgUUUUAFFFFABRWzcGGfwpHKtrBA63fl7o05I2Z5JJJ5960J7KNrrUtPW0hW3tbTzYpVjAcEKCG39TnJ6nH5UPQDlqKKKACiiigArZ1/8A489D/wCwaP8A0dLWNWzr/wDx56H/ANg0f+jpaAM2B4FtrlZlzIyARHHQ7gT+magqeCWFLa5SWPdJIgETYB2ncCT7cAioKACiiigB8MEtzMsVvE8sjcKiKWY/QCmspRirAqwOCCOlavhqOKfXreCR7mJ5X2JLbTCNoye+cHP6U6zsLSdNVudQe4cWmGAjYbpCXxySD+f861VO6TXW/wCGpk6lpNPy/HQx6K6nTdPsrTxXpWI5pYbqOOeJXkXMZPZvl+bBB7CuevWt2uCbSKWJO4llDknPqFX+VE6bgrt9WvuCNRSdkuxXorU8NCzbxJYJqVvJcwPOimNJAmSWAGcqwI9Rjn1FehaVd2Nt8bNRm021uIZrdr9pTNcLIrsEc/KAi7RweCW+tZ6dfP8AA0/4H4nlNFey6n4Rg1GytNLim8jT73W5bxJkAOIGthL8v4ZArk9P8G6T4lt9PudAmvLSOfU/sE8d5IkrKCpcSKVVf4QflI696Wt7Py/G36uw7q1/66/ornGLaXLWb3a28ptkcI0wQ7FY9AW6A+1Q16fY6Rpes+D7rSPDhu4Un16C3L3TrKcYYCQbVXjHO3tjrzTo/AdvYait/ZWOs2I0vVreMtqagLdxtKF3x4Rcc9stwRzQtXb0/T/MHov68/8AI8uor2/xJp8V/H4j1FPlh1NYLaYqeRLFdiJvx2hD+NcdH4F0x/E/iPTjPd+TpckSwtvXcwaVUO75cHhj0ApJ3t8/wCWlzgavDRdVNj9tGmXhtNu/7QLdvL2+u7GMV6Hd/Dvw79nuxZTamJ4zexRmWaMrvtxncQEyQ3AxxjnntXKeKv8AkCeGv+wf/wCztS5l/Xnf/Idnf7/wsczRXY3DaOvw1sHawut73ky7lukB8wInzH91yvovUetX/wDhW8U18r2tzMLNp7dVjfaXaORULuGHHymQD7tdSw85StHXb8Vcm6tf1/A4211rVbG3NvZaneW0JJJjhnZFJPXgHFUa7keEtDTVdO0qae9+1aqjSQzLImyAEkRBl25cnbyQV68VcaO/0ux8OaPomqR6RPeI00sys6/aJTIVVWKKSQOgB49aFQb1fp8+wbaHnVFdjdaFp9pol3rHiCS6ub0anLayRWsqRrI45LBihwM7ux7DApuk+H9K1OMXKWWoC0luhCs02o29uEBA4Bdf3rfe4GOMetSqM27ddPxtb8wbschRXocXgPSLdDFqFxeyTq15l4HRV2wEdipOWB9eD61swaFbWvhXUtAty7R6hOptvNYFhIbcSqCQACcrjoOtWsPJxcvK/wB+yH1t/Wh5HRXf+M9GguDrWqyPKLi0+xRooI2kPEucjGc8etTWvgPRWaEXE1+fPktIl8uRBtaaPcScr0B7en50PDT5nFdGl9+wuZfhc4Kz0+81GYxafaT3UgG4pBEXIHrgCmXNrcWVw0F5BLbzJ96OVCrDvyDzW14o0Wz0k2EunNOYbuJn2zsGYFZGTqABg7QcdvU1b8Z/Zv8AhPn+3+b9m2web5ON+3y1ztzxn61g1Z2KOVqW2uriyuFns55LeZPuyROVZfoRzT7/AOx/bpv7M8/7Ju/dfaMeZj/axxn6VAASQAMk9AKlCLkmsahcX0d3eXUl5PEMI12fPwPTD5BHPQ1De3tzqN5JdXszTTyHLux5P+A9u1X9cP2drbTE6WcQD47yN8z/AK8fhU16rRTabpEcaymIK0kTkgNLJgkHBB4BUce9Zqd0jP2miff8jFjjeWRY4lZ3Y4VVGST6AU6S3mhVWmhkjViQpZSASOCPwrsw/wBp1CBElWc2N9Cku5pvkJcDKbpWBGQRyAazPEyLHYWIWVJR59ydyA4/1g45ArONbmklbczjW5pKNv61Obp7QypGkjxuqSZ2MVIDY64Peun1q41O41WdtP1ZPsjYCKupxquNoz8u8Y5zVTVCtv4Z0uCSGGVyJgJQ5bZ8/wDCVbaf1qlVvbz/AMilVvbz/wAjGlvLmdWWa4lkDtvYO5O5sYyffHFWtPg1hVM+lRXwVvlMlsr4Ptlaz66GK2u5NHgsrvQdSlWGRpFkhymd2Oxjb0qpvlVkOb5UkjM1GHVsrNq0d5n7qyXSv9cAtVGt69gu10T7HBomoW8KTG4eWcFsfLg9EXAqfwm+oTX0eb6eKwtiC6mcqhJPyp1xye31qPaWg32/rzJ9pyw5uxi2l1qFrDI9jPcwxAjzGhdlXJ6ZI/Gp47rXNUjkhin1C8THzxq7yDHuOa0Y45J9N1wX8i2crXUTSecG+ViXOPlBP6VDp6jVNDGl27tFPHMZiFid1lUgDJ2AnI9xjmk5J3du35Cclq7dTKisbmaWaNIW3wIzyq3ylAvXIPp6UyBp/MMdsZN8w8srHnLgn7uB17cV3U73Dx3oZ9V8mLTXi/0m3ZIpGC/fyT1Puua5nTALTQdQ1FDi4DLbxN3TdncR6HAxn60Rrcyba7fiEarlG9jLR57O53RtJbzxkjKkqynofcVa/tzVv+gpe/8AgQ/+NWNBn1J72Gz065khTzPMfY21QOMs3qAB0P8AWmXtol/ql3Npv2aO285tivcRxcewZhxVtrmtJFtx5rSRm738zfubfnO7POfXNOmnmuZjLcSvLI3V5GLE/ia0YdNt7fT57vUd8oSZYFS2mTkkbid2GGMelXX0LT4rvUw81x5FnDHKhBXc+4AkHj3/AA96HUin/Xl/mDqRT/ry/wAznalt7u4s5DJaTywORgtE5UkemRWlZ2dlfSStb2t2Y4owzB7qNAp3YyZGUADGMDGc1fHh2yjnkM7zNFi3ZFjlQkeYSCCwBBx6jr+NEqkVoxSqxWjMDF1fzSSYmuZcF5G5dsDqSf61BW1qdmmiy2t1p0syuJJF3OwJ3RtjIwBgH05+tXTp1q/ja1Ty1Nvcqtx5WOOU3bcemR0pe1Vr9NfwD2qSv0s/wOYqZftNjNHKvm28m0PG4yhwehB9D61sxXU2saTqp1GRpTbqs0JY/wCqO4AqvoCDjHTgVX8Q/wCs07/sHw/ypqbb5Whqd5crX9af5mS7tI7O7FmY5Zickn1q4ms6pFGqR6ldoijCqs7AAemM1Wt2CXMTscKrgk+2a7aK/e+1nULi21Oa8s3icJbRQTTbCRgZQrs654JxSqS5elxVJcu6ucfdz31ykU1/LcTK2RE8zMwOOuCf6VVAJOAMk10XiM50nSh8wKmZSGt1gIIYZBReBTrW+vo/D801/eXEq3brBbpJKWyA2XYAnoMAZ96Sn7qaXX9Re0aimkYElrcQqzTQSxqr7GLIRhsZ2n39qaZZGiWJpGMaElULHCk9cCur8Txqmm3hWVJN2qEkKD8h8vocgc/TIqK3F+bHSv8AhH/M8nH+k+TwPM3c+Z7Yx97jFKNa8VJr+rCVa8VJowLS51C1ilksZrmGMY81oWZQPTJH49aWfVdQuYTFc39zNG3VJJmYH8Ca2rn7N9h8R/YNv2fz4dmz7uNzdPauaq4NTu7f1ZM0jaTbt/VkFWbSe+tUlmsZbiFVwJJIWZQM9MkVtrcXh8PaZHpeorA0Yl81BfJCQS5IyCw7Utshi0TV31RzdGQwMxhuldj8zDlxuFS6mjuutvxsQ6l1quv62MaXV9SniaKfULqSNhhkediD9QTVaKGWZmEMbyFVLEIpOAOp+lbUU8mm+FYrmwkaGe4umV5UOGCqBhc+nOa1Y7WJdRuLtZYY5LnSmme2VWDBmj5P3duM89aTqKN7IXtFHZf1schFNLA++CR42wRuRiDg9RxU9kuoI4m04XKsW8sPAGBJIztyO+O1aNjcS6d4ce9snMVw94sZkU4O0Lu2/Qnr64rqYYLa21FEtcgHVEZkCBVQmInAwTkc+1KpW5b6f1/TFUrct9O/4HFHXNW6HU73/wACH/xqgTk5PJp0n+tf/eNa3h7MctzcnakdvFvebdIGQdAFCOuSSQOTWztCN0jaVoK6RlxQzSKzwxyMI8bmRSduTgZPbmluftH2qT7Z5nn5+fzc7s++ea7GOMTQ3szyxJHcw28qTsZSWHmY+YFnIORjg4qr53keM9ZInSCRopljdpRH85AxhiRg1iq129Nv+AYqtdvTb/gHKKrO4VFLMxwABkk1fbWNYhcxPqN9GyHaUM7grjtjPFX4U1Se+tft2opPHHOjbX1BJec9lDk5+gpt7dwx+NPNeGO3SC9zI6bjuAfJY5J5+mPpV8yk7WuW5Ju1rmPPcz3Uvm3U0k0mMb5HLH8zTZIZIdvmxum9Q67lI3KehHtXQao18bZrlvEO+1ujIYovNn+cA4K4K4HpzxVfWoJbmbSoreJ5ZG0+LaiKWJ69hRGptoOM9kZVz9pVlhu/NBiUBUlz8g64APQc5qGulvraXUbs3Nx4d1YSMqg+W5A4AHQxH0rIv7GezdZRp95ZRZAU3Gc7vZtq/wAqcJp6f5BCaat1KNX01LV7W1i2Xl7DAwIixK6qQOuOcce1bmnvq7+H7+6nu7mdpoCkEEkzMWTI3yBSeQBxkeprL1H/AJFnRv8Atv8A+hip51J2a6/oTzqTs11t+BQub+7vdv2y6nuNv3fNkLY+mar0UVsklsbJJbBTxNKsLRLI4jcgsgY7WI6EimUUxktvdT2kvmWs8kD4xujcqcfUU65vbq8ZTeXM1wVGFMshbH51BRSsr3FZXuT217dWRY2dzNblvvGKQrn64qWXV9SniaKfULqSNhhkediD9QTVOijlTd7Byq97BRRRTGFOjkeGRZIXaN1OVZTgg+oNNooAv/25q3/QUvf/AAIf/GqTu0kjPIxd2OWZjkk+pptFJRS2QlFLYASCCDgjoRT5ZZJ5WkmdpJGOWdzkn6mmUUxhT45ZIWLQyNGxBBKsQcHgimUUAPkmkm2+bI77FCruYnao6Ae1WYtX1KCJY4dQuo41GFRJ2AA9hmqdFJpPcTinuT3N7dXjKby5muCowplkLY/OoKKKEkth2tsFFFFMAooooAKKKKANY3Wn/wDCPCx82587zfPz5C7d23G3O/OPfH4U7+1kg02SCC6vZ2kj8tUn4jhU/ewNxyccdBwTWfLp95BAJp7SeKJsYkeIhTnpyRTWs7pbUXLW0wgbgSmM7T+PShgQ0UUUAFFFFABWzr//AB56H/2DR/6OlrGrZ1//AI89D/7Bo/8AR0tAGbBNFHbXMcke55UAjbA+UhgSfyBFQVPBOkVtcxvHuaZAqN/dIYHP5DFQUAFFFFAGho2oQaXqEd5NbSTvCwaMJMEGff5Tn9Ke2qQJBqENrayIl6q58yYMUIbdnhRmsyitFUklb1/Hch04t8z/AKsa415l1DTLqO3UNp8SRhWbIfaTz7daoXkltLOXs4JYEPJWSUSc57EKOKr0UpTlJWYRhGLuiazuXsr6C6iCl4JFkUN0JByM/lXUHxlYReLJ9es9HninuknFxE96HQtKhXK/uwVALE4JOemRXI0VG6t/Wpex3Vt8ULu20jw/aLYI8ujSEmV5TieMqybCuOPlbGcnp0qpF45TSobG38N6YbKC1vjfutxc+e0r42hchVwoUkYxnnrXIUU763FbSx2X/Cc2thpptvD2jNYP/aKagJZrvzsOucJgIvy88d+vJ7VJPEWiLqg1Oz0CeK8+1x3JL6hujTa+5lRRGCAenzFsVzFFJaO6/rb/ACQ3rv8A1/Vztn+I876BrWmfYcDUr43kMnn/APHsTIrlcbfm5Uc8VM3xGsxeanewaC6XeqNE9zI17uUMjq3yLsG0Eqcgknkc8YPB0UA9dzuz8S8mY/2T/rZb2T/j56faBjH3f4f19qydZn0/UvD+keTqduk9jZmKS3eOXezbicAhCvfuRXNUUrL+vL/hx3f9eZtQ63at4ZXR9QsZZhDO88E0FwIyrMoBDAo24cA8YPvW5ZfEeazn02T+zw/2Gxa0IM3+sY7cP93jGxePbrXE0Vsq1RbP+krfkTb+vxOqsvGcdv8A2bc3OmfaNR0uJorW4FxtTHO3em0lipJ6MtMs/F0Qt9OXVtPe7n0yczWs0VwIjy24q4KNuG7njB965iin7ape9/6/z8wsbmpeJpNT0R7Ga2VJJNQkvmlV+MuMFQuP1zVjTPFNra6TY2Wo6V9t/s+4a4tmW48tctjIcbTuGQDwRXN0VKqzUuZPXT8LW/JA1f8ArudncfEHz52k/szbu+2cfaM/8fGP9n+HH4+1NuviBLN9la3sfIkt7uG5VvO3Z8uMR7fujrjP41x1FUq9RbPt+Gw3r+P47nX6h43t9VvdWN9pTmy1IwsYIrra0TRgAEOUIIIzxtqw/wARVa5ilTSFjWK4tphGtxwBCm3aMr39e3vXEUU/b1F18/uE1fc37/VIvES2ME8sGmrZxOvmztI4k3SFuiISPvenbrV3VLq11j4gi6sJ7Ka1XyWL3jeXCwRFDZD4JHB4xk9hXJ0VlzO9xvU0fEFxY3XiG9m0mNYrN5SYVVdoC+w7DviodLnt7XUobi7RnjibfsUZ3EdB1HGcVUorPl92wpLmTTLlrdRHWEu9RDyJ5vmyBACWOc45Pc1FNeTTag96zYmaTzNw7NnNQUUcqvcXKr3Ny28Qs2pQPNHBbRPdRzXTwo2ZNrZyeT7nAA5qPWb+2u7G1jt5N7xzTsw2kYDPlevqKx6Kn2UU010JVOKldf1/Vzeg1FP7HtoLDUv7KljJ88Ycecc8NuQEnjjB6VW1q9guo7REk+03MSET3ezb5x4x15OBxkjJrKooVNKVwVNJ3Cte0GnixtJo7qC3v4Zy7+cspDKCCv3VI9fSsiiqlG5Uo8xf1FEkmluvt9rPJLIXaOFZBgk5P3lHH41FcajcXNpDasVSCEfLHGu0E/3j6t7mqtFCikg5V1NhtYe70O7hvp/MuGMKxZTllXd1IHOMjrzVfR/sH2ib+0vL2+SfK83zNu/IxnZzjrWfRS5Ek0tLi5Ek0tDoFurW1huPskmkRvLC0TGMXRYqRyBuGM/WqOl3cK291YXr+XBdKCJME+W6nKnA7dQcetZtFL2as0L2atY1rPVLex065sWgklM74e4t5vLLoP4fmQnHftWZKYzKxgR0jz8quwYj6kAZ/KmUVSik7opRSd0a+k3US2U1tdT2ghaRX8u6jlYZGfmUx857YPWpdQ12Oa71Qwxl47xEjVz8uAuOce+OlYdFS6cXLmf9f1Yn2cea/wDX9aF+w1GO2tLm1uYGmguNpYJJsYFTkEHB/lV+XxKrt+7sVjTbAqosnAETE+nfP/66waKHTi3dg6cG7tGxNqFvq80EV4ws4Y5ZZXckuWDtu2gAdfrx9Kr32rS3GtHULYmFkYeSB/AF4UfkKz6KFTithqEUaF1q8lxbyQx28Fskz+ZN5Kkeae2ck8DrgYHtTtZu4btrI277/Ks4on4IwwHI5rNopqCWwKCTugrYtbu1srZBLcQ3HGRFFYxsfo0ki5B+gYVj0U5RUtGOUVLc2NburK8uEu9P+zxRrhVthb+W/wBWwNp/P8BVK41Ce9vI5rtwdm1VCqFVFHQADgD6VUopRgoqwlBJWOg1vU7S7sruO3m3tJqBmUbSMpsxnketZov7YKAdJsz7l5uf/IlUaKUaairIUaairGwmo2raJqEAgitZJjFsji3kPtYknLE46+orHooqoxUb26lRio3saenfYn0u+gupoYJ5DGYZJY2bGCd2CqkjtTWH2XT54YNVtZY5ipeKNJMvg8csgxjPqKzqKXLre4uXW9y7aam9ravbPBDc27uH8uYNgMO4KkEHHHWrlhq4fU7y71GUK01rJGuF4yVwqgDoOgrGoodOLv5g4RZdstTkso3iMMNxEzK/lzAlQw6MMEc/z71s6NrlvGI5NRuCJjqIuJCUJ+XYQTwPU9K5milOnGadyZ0oyTuOc5kYjoSasWN/LYPJsVJI5kMcsUgJV1Prgg9ecgg1Voq2k1ZmjSe5v2utpLaXa3bJDlIY4IkVtqqj5IHX3PJyaq6je2s3imW8x9otWuN5GMb1z05rKoqFTindf1t/kZqlFNtdTpzqudS8/wDt/wD0Ldn7J5cn3Mf6vy9uzpx1xWHLdW/9pzzxWcbQO7FIJCwCgnj7pB4+tVKKI01HYcaajsakmtpNaw28ml2Rig3eWu6b5dxyf+WlJrV5BeNZG3IIitEjcAEBWGcjn61mUU1BJ3Q1BJ3RtanBpt3ftNZajZwQsq4jMUq4IUA8CPHXNZrBLO7Ro5YLwKQ3CtsPsQwBNV6KIxsrXCMbK1y5Jq17JqSXxnZbiPGxl4CAdAB0A9qsalfx3mk6em8NcRtM0yhNoBZsjoMflWXRRyR08g5I3T7BRRRVlhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBuWm+00W8vb6Rma/TyIUckmQ5BLn2Hr61tXEUcOp6jbysW86yZY4x92OJEypI9cjgfU9xXOX2s/wBoKPtFha71jEaOpkGwDpgb8D8qSTXLiWB1aKETSRCF7gKfMZB2POOmBnGeKGHYzaKKKACiiigArZ1//jz0P/sGj/0dLWNWzr//AB56H/2DR/6OloAzYLhYra5iKbjMgUN/dwwP9MVBViC48m1uovL3eciruz93DA5/TFV6ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANBtIb7PNJBd21w0C75Y4mYsq9zkgA49iabLpUsWli+M0DIXCFEk3MpIJGccDp0zn2q7Ig0PR3hf/j/vkG9f+eMXXB929OwqOP8A5E2f/r9T/wBAah9QRkUUUUAFFFFABWzr/wDx56H/ANg0f+jpaxq2df8A+PPQ/wDsGj/0dLQBLoNhZ6np2pwn7VFdQWb3IkWYeU4Qg7WTbn8d34Vg10vgjCahqM7jekGmzu0JOFmGANrd8c9sHjrXOzSLLO7pEkKsciOMkqvsNxJ/Mmh7/L/MFt/XkaZ0C4fRbK+sxLdNdNKrQxxEmPZjnjORg56DFXrjwpFY6el/f6g0dq0ML5jgDOZJATsClgCAoyTkfSt7whqaaf4NN1Ky5hvxAu7oFkMe7/x0NUniuCXULXUNJ05GuLiwuoGEMY3O0fkBdwA5OGPPpmrastPL/g/meR9Zqur7NuyTevlf/gpHOzeFIrJNRlv791gszCUeC3EhmWXJVsFlx05GaH8KwwR3lxdX7i0t4IbiOSK3DNKkjYX5Sw2n1Ga6HULq2t9I1SKWCK+SyisLaaNnYKWUMGGVIOQeOvUUajaX17aa99lge4t7i0tTp6wRHBh8wEKqjJ45z+JptJN2/rQmOJqu3M7art/d/wA3ucu/h+3i1mztZL92tb9Ee2uYoNxbc20BlLDGDnPJqxZeFINR8RXmlWuoODao+ZZbcLudXC7QA54JI5z+FX3tLg6x4a02KGSe509Ee6WMbzDmXcQ2OmARn0zT4obvTvEniaeSGW3c29xNC0iFdw80EMM9R70rL8/wNHXqOOktbeXe1/uMqx8LLcWcNxc3jwK9vcTyKINzIISARgsMk/hS2vhWK+vNOFpqBezvhJiZoMPGyLllZN2M9P4u9dnewpOIm09GkW90q+mjRASSZNrYA+rEYrM8OQy6bJoWm3Ssl601zcNA/wB6NTFhQV7ZwTg0cvcy+t1JQc0++mm1n+VkcpZ6bpF9qFvaQapdRtO+wPPZKqgnpnEp6nA9qZdaI1ho/wBrvpTFcPcPDFbbAS2zh2JzwAeOhyavro+u6tfW1tfaabGNnJM505bdUAGWJKoucAd6s+LZ18QWket2O9oLdzayoeSnzEo5/wB4Hn3qXsdftZe0jHmunvt526df08zmLmzurMxi7tpoDIgkQSxld6nowz1HvUNbPiGy1OzFg2qagL5J7ZZLd1uGlCJ025PTGOg4rGpHf0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKALb6tqMsTRSahdPGwwUaZiCPTGaRdU1BbfyFvrkQ7dvliZtuPTGelXIrKwvbW8azW6je1i83fK6srgEAjAA2nnjk0W1nYX0FytqLlJbe3M3mSOpVtuMjaB8ue3JoAyaKKKACiiigArpdX0jULvRdIvLWzmltodN/eSohKpiWUnJ9hzXNUUAXrbWb2z0+eztnjjinUpKVgTeynqu/G7HHTOKo0UUAFFFFABRRRQAUUUUAFFFFABTonEcqO8ayqrAlHJw3scEH8iKbRQBd1TVZ9WuI5JljiSKMRQwwrtSJB0UDk9yckknPWqVFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHQ30AstFFlp89rKrgS3Uy3Me6RuoQLu3YH05NFxALLQRbWE9rI06iS7mFzGCcciNRuzx345Nc9RQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB/9k=)

각각의 2-gram에 해당하는 단어를 저장하기 위해 두 개의 구조체를 만들었습니다.

첫 번째, tNode 구조체는 임의의 2-gram을 가지고 있는 여러 단어들이 있을 때, 각각의 단어에 대한 정보를 저장하기 위한 구조체입니다. tNode 구조체 안의 charNum은 해당 단어의 인덱스(words.txt파일에서 해당 단어가 몇 번째 줄에 있는지)를 저장하는 변수, len은 해당 단어의 길이를 저장하는 변수, next는 다음 노드를 가리키는 포인터 변수입니다.

두 번째, WORDINDEX 구조체는 각각의 2-gram을 가지고 있는 단어가 총 몇 개인지를 저장하는 배열인 tNodeNum과 각각의 2-gram을 가지고 있는 단어들의 노드를 가리키기 위한 tNode 포인터 배열로 구성하였습니다. 각 배열의 크기는 2-gram의 개수만큼 할당하였습니다.

1. **함수 선언**

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADk3LTIzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMjoyMiAxMDo0MDoxMwAyMDIwOjEyOjIyIDEwOjQwOjEzAAAAOQA3AC0AMgAzAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMTItMjJUMTA6NDA6MTMuNzQwPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPjk3LTIzPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAQ0C6QMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6KK2dBke5vreyFravBkmdngViU/iJYjIwOmCO1AGNRW5pBM+pLa2sVk1sJ+TcJGXdCegLfMeB0Xmsm8WJb6dbcMIhIwQMDkLnjOaAIaKKKALVlpt1qJcWke/Zjd8wGM/X6Uy7s57GfyblNj4zjIPH4V0Hg37959E/rVLxV/yGz/1zWudVZOs6fQjmfNYxaKKu2dgLyyvJVlIltYxIItud65AJznjGc9K6VFy2KbS1ZSorcTw4PJjlnu/LX7IbufEWTGpOFA5+Yn04qJ9OisLuwuFvJDbXI8yGZYAXUg4wULY4Pua19hNOzRn7WD2ZkUV0F7pdzqHjC7tbu8DvGWee6MQX5VXJbaPbtSarHBH4V037LM00ZnmIZ02MPu8EZP8AM0vZPlcu3+aQvaptLv8A5XMCitfwvoQ8R64unvdfZFMUkhl8vfgIhbpkelb9/wCAbS009byDW3lixaSuXsiuyG4JCtgOxLDacqB6YPaueU4xdn/VzY4miu8i8Ey6RdaXq0f9orCmqwQSR6lpxtH5YFWUb23LwQehHHFM8W+FTHrV/d3t35F5qWpyrp9isW55lMpHmMSw2ITwDgk+mOan2kW7L+tv8x2/r7/8jhqK63U/BMFpBq6WGqm9vdFCG9hNt5aYJwxjfcS21sA5VfUVa126DfDPQ7kWenRz3stxHPNFp8COwRht+ZUBH1GCe+aftE7WCzvY4iiu11HwDa2k2o2VrrbXOo6fY/bnh+x7IymFJXfvJ3ANnG3Hv6a/h3w3beH9R1C3uNSaTVP7CnmltRb4jjDx52iTdksAQSNoHJ54pSqxUW0CTbS7/wDA/wAzzOiuyj8Ao7W1g2q41u6sftsVmLf93jBYIZd3DlQT93HbPeo9O8Dw6lo8GsRauqaYkbtqMzwgPZuo+5s3fPuyNpyM56Cm6kV1/r+kG5yNFdhY+B7W5j0tLnWGtrvWS50+E2m4FASEaVt/ybiMYAfFQp4PtrXwyNZ1vVJLNReSWbW8NqJpPMXHTLqCPvZyRjHfNP2kRHK0V1elWtrpWn6xrlnOLz7G6QWEskez53P+s2HOCAOBzz9KtxeHj4k8P2F2JFiuFguZJpvL3NO4cbQxzkk56nNaJX2MataNFJz2bscTRXoHiaK10Kz+02dhZGZriOA+ZbI6hViViNpGMktycZp+oaObSy1E6DpUU8xvYii/Y1uDGjxBiMMpwMmnbU5Y42MlF232/D/M88orvNStrLS7XXprC2szNC9sMPAkqwu3+sVQwIHPYdPwqvDDbJ4z0ZobO1EGqQwyzW7QK6KWJDBQwO0ZHahRu7FLFpxclHpf8E/1OLoruNAis9Q1XXF1G1tTGNsCbbdEEW6TYGUAAAjPXrxU0WnQ6fpxMllam5t9IldjJAj/AL1Ziu4hgQTxjJpJaX/rqEsYoy5WtdPxRwNFd7pFnaag2n6ibKzWa4sboSIYkERkjwFfaRtU8jPaseC7e11a1GuQaXPay7o5FtY7ZiFbALZiHBHBGeeDjvT5dbFRxPM2ktvPXrt9xzVFdVrGjw2E1p4djeziuctNcXlxhRk/cXeRkDaB7ZaqniTwnc+GvK+13MDNKqsIg48zlck7QT8oOVznnHSpOilUVSPMtv07mBRWt4Z0UeIvEFvpZuDbGcPtkEe/BClgMZHXGK3LT4a6lNAklxOkXn2cVzbhELbmkkVFjfONp+cEkZwKdmaHG0V1eqeDbW2sNWm0vV2vZdGmSK9je18ofM23dG25twDDHIX1p3iHwjpXhzUptMudemmv1iEkaRWH7skrlUZvMypPsrAZHPXCWuwHJUV6Zp3h208OQ+K7E6m1zqUGisLmAW+2NC2xiEfcd2OAcqvXjvWFfpOPhXZyW2ryz6d/aJjaylso4/Lm8ssWEgZmYc45x9BQ/wCvvsC/r7rnIUV2zfD+13LaQ600mpyaYNSjtxZ/IV2B9hffw3XHykcDkZxWv4K8NWui+JtLe81Nv7SutOlu1tFt/kVHifaDJu+9jnG3Hv0yPS9+n/B/yYLW1v62/wA0eZUV2Nj4DiuRpdpPq/k6tq9s1zaWott0e3BKB5Nw2lsHorY703SfAi6zpsV/baqkcEDuuq+dFtawCjO7G75wQCAeMnj6D0A5CipJ1iW4kW2keSEMQjugRmHYlQTg+2T9ajoAKK0bTTIpNNk1C+uWt7dZBEnlxeY7vjOACQMAc5JrTigsT4UnWS9kW3XUF2SLBln/AHf93cMfn271tGjJ/dcylVSZzdFbf/CO7NSu7OR7qZ7dlCiztDMzKRkMRkbRjHfvT18MldQ1G3ubsQrYxiVnMZO5Tg9OoOD09ePej2NTt/X9IPbQ7/1/TMGit7SfDkOvalFaaXqKZcqGW5QRSctg7V3ENgfNjI/OqWt6NLoWotZzzwSyLncInDFDno2Oh74561k9HZmi1V0Z1FbPhbw//wAJLrX2H7T9mCwyTMwj8x2CLnaiZG5j2GRU9hp2gTeI9Nt11G8uLSeRVlDWISRW342FRLjBH8QbIz0oSu0gbsmzn6K7bUPDOmat8UJNC0i8mtxPfTROHs1RLfBOAgEh3DjHO36Vg6xpmk6essVnq813ewSiKSM2flxt13Mj7ySARjlVznNSndXKas2uxj0UUq43DcSFzyQM4piEorf1a3lnbRoGvmuIJoVWAvbrGYlLbcEAnPT1qK90KC3hvmt75p3sJVjnHkbRgkjKncc4I7gVs6Mru3T0MlVi0rmLRW5rdnpltY6e1pJMJZLUOAbcASZdssx3nB9sHoOfTHt41muoo5HKI7hWYLuKgnrjjNRKDjLlKjNSjzEdFd3/AMKsvxrAt3vUFmb6Sz+0CIl/lQv5mzONpCkfe61Avw/ja4j00asRrUtj9tjtDbfu9uCwQyb8h9gzjbjPGe9Z3Vr/ANbX/Ivrb+uxxdFdXJ4T0ux0DSNU1jXJrddUQtHFBY+aybWKsTmRRtHHI556cZre8FeGLPS/FPhu7u9VYXV9I09rbrbZVohkKXfcCpbBwAp9yKq2tmK+l0ebUV7FbeHtN1Lw34elSwtTdxX6T3DeSu64ha6MbB+PmAynXPFchrng9F1awlhuVij1jVbi2SJIcC3CT7Bjnkc9OMYpK7aX9dP8ymrXOMor0D/hWlpHBI9zrzxtGl1KVWx3fu7eXy3OfMHJGCB9QSOprWmmHR/Gk/g6/uPten3TiPLLtAdkBSULk7WGQOvqORR5Cem5xFFaVnp1m2sTWer6kNPjhLqZ/JaXLKcY2rzz61nHgnBz7+tK9wEooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVsWl9YQ6G9p5lxBcTt+/lSBX3L2UEuMDufWserEWn3k8BngtJ5IlzmRIiVGOvIFHQCzaHSopYpZprzdG+4okS/Pg8c7vl4x2NVb66N7qE90VCGaRn2jtk5xUcMEtxKIreJ5ZG6IilifwFM6daACiiigDp/Bv37z6J/WqXir/kNn/rmtV9H1htJaUrCJfMx1bGMZ/xqHVNQOp3puGjEZ2hdoOelcqpyVdz6EWfNcp1e0e+TT9SWWdWeBlaOZVxlkYYPX61RorsjJxd0VKKkrM3RrlvLqOo+fHItneReSoQAtEq42HGcHG0cZH1qO4v9PuDY2wa4jtLKMgSeSrPIxbcSV3AAfiaxqK09tP+vW/5mfsorb+un5HRXGtae3iO4v4vtLwXiPHOjxqrIrLj5SGOT35xVPUb6xk0azsLH7Qxt5HdpJkC7t2OgBOOlZNFJ1ZNNd/87/mCpRTT7f8ADG34R1q30DXhfXiSvF5E0eIgC2XjKjqRxk11unfEfTNPW3Y2VzM0Nvp0RVlUKTblt5zn/aG3jqOcV5vRXPKEZPXy/D/hzXo13O8Pivw9Z6e8FgNUuZptXh1Gae5jRSVVmJXAc8gHrnkk9KgvPGlnqM99PeC7NxBqLX+kTlQ5jy+4xSAsMIcKeCcHpmuKoqVSinf+un+Q27/16/5s7XxD4wh1mK/lTXfEYN4u5dMkkzbxMSCylvMO5B82BsHbpiq+rat4fuvBenaPaXWpNPp7zSI8tjGqymQg4OJiVxjrg/SuSop+zilZD5ne5283jTTpPFOu6ksN15Oo6U1lEpRdyuY0XLfNjGVPQk+1WV8ZaA+oXms3EWojUr3S2spIEjQxJIY9m8PvyQQo42jGTya8/opOlFq3lYSbTX9dv8jvZ/HaajbWslxrniLT5YbQQS2dhJ+5lZV2qwYyDbnjI2HvUOmeMNI03SLbQRaTzaTcwv8A2qzRJ50srfdZPmx8mF25PPPAriKKfs47CWlvI7u38bQyaXptnLrniHTF05TBjTcBbmINlSR5q7HwSP4x0+lY2oeIbe88F22kAXL3UWoTXTyy4IZXAAy2cluOeK52ij2cQ/r9DoPD91BcaTqWh3k0cAvFWW3llYKizJkgEngBgSMnjpVzTvFK6NotrphjZprbUBNK0ZVkaMHlVYHk5/D3rk6K1TadzKrRhVjyz2Os1PxHpmtm7gvlu4bdr37TA8UauwXaFKFSwA4AOcmmaj4uW8trkwRyQ3DX8dzB0KoiJtUE568DtiuWoouzJYWkreX9fidZc65od1banCovbZdReKZtkCOI5FJLADeMgk8fWoodf05vE1lfzC6htdOSOO2jSNZHdUz94llAJ68Z61zFFPms9AWFgk1d6/8AAX5I3xrFjbLrC2j3Mn29VMbSQqmxhJuIIDHjHf8AStm+8ZaZqU0hmiuoRPpzW0hSJWKyM+4sBuGR17iuHopXsrBLCU5Pme//AA3+R1dn4l060mtrZEuvsFtaTQLJsUyO8o+Ziu7AGe248DrWfp8+iaZqMd4JLy8MILpFJapGpkA+TJEjcZ5P0rEoovrcpYeKuk3rubtx4ikubO1uTPcxa1au6rdRnG+Nsnls5DAkgYHQ1V1TxBqGrosd3O3kqE/cqx2FlXbuwSfmIHJrMopGsIKCtE0/DeqjQ/E2nam4ZktbhZHCAbiufmAz3xmu4uPijbfYbxLW1uDM2qxXNr5mAq28ZQiMkE4OYxwARz1rzSind/18v8irL+v68zs9T8TaGuna8mixXzT67OjyC5jRFtkD7yqlWJfLcZIXisvxhr1vr3jC41awSWOKTy9izKAwKoq8gEjqPWsCiktLW6FXud/c+MPD803iDUki1IahrdiYDCYk8qByF3fPvywJXg7Rgdj2zptW8PHwCuhR3epm4S7N4JGsIwhYx7dn+uyBn+L9K5Gijpb+u4ut/wCux3Vv4202LxVBqbQ3Rhj0YWBUIu7zBDsz97G3PvnHap9N8Z6BHqun6zqMWoi+tdN+wtBDEhjZghRZN5cH7pHy7evf18+ooet/P/g/5sFp/Xp/kjvIfHMdzpulxXeueItKexgW2kg0x8xzov3WBMi7GxwflboD7VFovjPTNF0q301LSe6tr1nbW2mRd84YbQsZ3dFyWBOCW54riKKb1vfqGx02laZpraZrd5eWs7WKxMLC9nbyj5uflXaDhmI6gE4wa5miikBqWt9aPo7abf8AnRoJvPjmhQOQcYIKkjjHfNE99aDRZLC1E5H2sTI0igZUJjnB657frWXRWntJW/Az9mr3Omvdf07Uhewzi7hhnmimDRIpZtqbSrAsBjuDk/So7rX7Oa51Z4opkS8to4YlIBKlQvXnp8prnaKuVecr36/5NfqQqEFt/W3+Re0rWL3RrkTWE7J8ys8YYhZQpyFYAjI9qZqGp3epzLJezvKUBWNWYkRrknauegGelVKKwNy/pB05btjq017boEzFNZIrukgIwSrMuR16MD0rd13xTZXl9olxapcXlxp2Gub+7RYprwhwQG2lugAUEsxrk6Kd9vIVtztYvEuhWfxKg8T2rajLA93JczwSW6K0e7PCkSENyT121yTLJf6k4tIpJXnlPlxouWbJ4GB3qvRUpJWKbbu+5veLrTTrLVIIdMtxasLZPtMAmMvlTc7l3eo4z6GsNAhkUSsypn5iq5IHsMjP502imhG/eanpkg0toJLtmsFVCHt1UOA+4nIc469P1qGTWLd49cUJJnUJVeLgfKBIW+bn09M1jUVq6sm7+v46GSpRX9edzUvr2zvtMswTPHdWsAh2eWGRwGJzu3AjqeMGsuiiolJyd2XGKirI9Tn+K9lJdXciW12Fm0nyIwVX5LvDAyfe+785GevtWVH420canB4gkt7w6zBp32QW4jTyGlCGMS+Zu3AbTnbs6964Gipev9ev+bKWn9en+Rva7rttqnh7QLG3SVZdNt5Ipi4AVizlhtweRj1xW9ovi/QYbzw9qOsR6gLzRYfs/lW0aMkygko24uCpG45GDnA5FcHRT/zuK2lvkejaH8RtP0nUtDlktrp4LOC4gu1CLlhJJvXZ83OCF64qBfGWg3klhLqaaih0zVJ72BIIo2EySSCQKxLDYQR2DcVwFFJaNPt/ncb1v/Xkei3XxB0qeKZUt7wGS01GEZRfvXE29P4ugHX36ZqpLrOn6j44uvFrOIrO2VXit5nQTTSrGqqoQMTjdzu6YFcLRQN67nSeFbODVddnutcs2uNPCu91OZDGkJPIYsO+ei981zjY3HbnbnjNJRR6CCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtjQI5Gvo72eZ47TT/3juScDnIQe7Ht9ax60YtYKaWlhJZW00KOZPnMgJY9ztYZ9KYG/oFrPHcW+oRWshN9cn5kQlYYg3OTjjJ4+g965O4jeG4kjmRo3ViCrDBH4VLZ3z2Oox3lvHGHjfcqHJUe3XOPxquTuYk9zSDuJRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABV600v7YIgl5apNMSI4XZtzHsOAQM9skVRrZ0iFLCD+2bwZSJsW0Z6yyj/2UdSaAKselE2huLm6gtVErQ7ZQ5O4AE8Kp9aosMMQCGAPUd62bC8e7ktrC8sEuo5pzIGO9XJY4YgggdvQ9Ky7yJLe+nhhfzI45GVX/ALwBwDQBDRRRQAUUUUAFFFamh37adJczCKXY8RiaeHh4Nx4YH17dRn1FVCKk7NkybSuijaWsl7eRW0ABkmcIuTgZNRyIY5GRsZUkHFdRaG/tfF+lSSahLcC6EZSUsVd4i3AcdfwyR7modPmvLrW764ur673WcErErJ+92g/dVmzt69e3Nb+xWi63f4WMfau7fSy/E51EaSRUQZZiAB6mpLu1ksr2W1m2+ZC5RtpyMiul1OeaN9BvYzdQXEysDJLNulZd/GXAGeD6dDWf4kv74eJ7rddXANvO/k5kb93z/D6dulKdKMFq+o4VJTlov6uZt/Ba29wEsrz7ZHtBMnlFMHuMH09arV116kV14909b7EiSRwb/MOQx2Dr65NYeqahql288V/NO8cc3zRuTtjbkAAfw9+Bjp7UqlNRb9Wvu/rzCnUckvRP7zNqzdQWsUFu1tefaJJEzKnlFfKb0yfvfUVXBKsCpIIOQR2rptTnluF8Ny3EjyyNH8zuxYn953JpU4KafqipzcWvmcxVi4spbWC3ll2hblDImDk4yRz+VdTqV1PeJ4ljuJWaO2lRoEz8sREmMqO3HXHWqGvahfyaPpKy3dw0c1qTIGlYiQh2688np+lVKlGMOa/9ar9CI1ZSaVv6tc52ilT76/WvoR765l8QSW0kztCdaa2KZ48o2O8p/ulgGI6E89a4qtT2avb+tP8AM6Vq7Hz1WrrOi/2TaaVP9o87+0bMXW3Zt8vLsu3qc/dznjrXp+i20sdxZaDdS6pqUEmgm4nH2hVso42jYqPJCc4O0b9wJbmq1vME8PaTHo6H/hJX0AmylYZ2oJJN6xY5EpXdg+gwOTUSrWdv6+1/kEbN/L/5H/M8krb0XwpqGvaTqeoWRiEOmx+ZKJCQz8McJgHJAUnnFd7aaza6NovhRvtWpmC7WSS7tbSzWZNRlZysiSEyqWbGFwQ2Mj6VZ8P/ANmaJY6Ekt1DYQalqlxcta3iy+Y0LBoEX5UYDhj94ge9EqkrNJa7L1DTRv1+X9aHneg+H7bW9L1Wb7dLBdafaPd+T9mDJIi4GN+8EHLf3T9e1YVd34d059I1Dxvp0ud1rpNzESRjOJEGfx61Jo+oavp3wwsX0GaeCeTXmj3wEhmJiTCcdQSOnQ4FXz3d1s7fi7A1bR+f4K5yv9if8Uf/AG79o/5f/sfkbP8Apnv3bs/hjH41lV634p1Kbw7o2t/8I5c/Y93iMIXtW2lf3AZ1UjoNwOQPp0qTXLd9H1fxRqdncanEj39tCLXR5hbySSPHu3M4RiFyzcAcsRURqtq/f/7X/MGraf11/wAjzWx0T7b4b1XVvtGz+zmhXytmfM8xiOueMY9DmsqvY9ee80ceOJ9JWWzuhHp0kjRH95GzL+8bcoGGyTlhjqTT55oYLXU9XlluLLWX0OxkuLm0t1kuIi5IlkClkwSAmWBBAOaPbPV+n5IbW39dv8zyXSdMuNa1e102yCme5kEab2wAT3J9Kv8Ahvwpf+KdUuNP06S3SaCJpT5zEBgCBgYB5JIrttJ14XvxR8N3GmSajC1zBFFeTzx+Q1+QWHmFVZgwO0Dknlfas/wnrWqnW/EV9fXlzc3dnpM5RrqVnZNkikLycgA9qbnKz6aMS/y/E4690W5sdH0/Upmj8rUDKIlUncvlsFbcMccnjBNZ9e86nb28ElqLA74b/SNVuLdVGd3mhJMD/voj8KwvDjXOn/D2yuE8yCZdI1SaF+jD54yrD8RkGpVZ8t2v61/yKsm9H1/RP9TyOtPVtHXR4beO5uCb+RBJJbLHxCpGV3Nn7xGDjHGevavUfHFyJbIvqDb4LbWrMgN0RWtw78e5JJ9TXD6rCJfipcR6mqlJL7kN91lJyv4EYroot1Wo7Xf+X+ZnJ8sefyv+f+Rzmn2n2/Ure03+X50gTdjO3J64qKeLyLmSLO7y3K5xjODiuhtb/VLrxRBDfSzNFHfJmNs7ImDEAAdF4zwMVcR7jWbO8juLjLR6nEsDOMiHJIwB2HTjpxXZGjGcFy73f6efmc0q0oy120/rY46iux1RzdaDqplF9MLW7RI5ryYSfNuIbaNo28dRk9qqeKtWvYtbuLWC4kit/KRWiQ4V8xjJI6E89T7VEqKjHmb7dO9/8io1nJ2S/H0/zOZoor2Se3kij8Q6DdSatqMen6DvklnnX7GjiNWj8uAJhCMfKd2eG681z9LnQtXY8boq7/Y9/wD2L/a/2c/YfN8nztw+/wCmM5/HGKpUAFXLzT/sllZXHmb/ALVGX27cbcMRjrz0rYubu807SdHXR5JIUnjLOYCQZZdxBDY+9jgYNaOnXlxFJ4atEkZIZgwmjHAkBcjDeo9jXXGhFtxvrdL7zllWkkpJd/wucVRXb6VHJZS6ZbxyXsyXdxJiGCUJEqB8HeNp3985xxxVF7qXTPDN59hYwONUaNXQ4ZF2noeo6Y4pOhaPM30/y/zGq95WS/rX/I5atZND3+D5dd+0Y8u9W08jZ1yhbduz7Yxj8azri5mu52muZGllbG52OScDHP5V22h6jqelfCS/utGmmt5V1iIPNASGRfLPccgE4HvnHeuZ2s7f1qjpV7r5/kzl9G0ldZkktYbjZflSbaFk+WcgZK7s/K2OnGD0yKzSCCQRgjqDXdeJ4CPjHCLKBYriS4tZZI0GNsrKjPwP9okn8azC+oS/Eu7fwpg3jXcxtsBMfxZ+/wDL0z1pb2+f4B0v6ficvRU14ZzfT/bBi48xvNGAMNnngcdahpLVAFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAq1BqmoW0Qitr65hjHRI5mUD8Aaq1p6Zb6feT29pKl0Z532GRHUKhJwPlwS3qeRQBWXVL9ImjS+uVjcksgmYBs9cjPeqtbcOiBLVppbe6vSZXRI7TjCqcFydrcZ4Ax+NY0mzzG8rdsydu7rjtmkA2iiimAUUUUAFTW15dWUhezuZrd2GC0UhUkenFQ0U02ndCaT0ZLLczz3BnnmkkmJBMjuSxI6cnmpm1XUHuUuHvrlp4xhJTMxZR6A5yKqUU+ZrqHKuxNcXlzdkG6uJZyuSDI5bGevWpW1bUWeJ2v7otD/qmMzZTjHHPH4VUoo5pdxcq7Fm61K+vUVL29uLhVOQssrOAfXk0XGo313EsV3eXE8anKpLKzAfQE1Woo5pPqHKl0HI7RyK8bFXU5VlOCD61am1jU7iPZcajdypkHa87MMjocE1TooUmlZMbinq0Sm7uD52Z5T5/MuXP7znPzevPrTlvrtLRrVLqZbdusIkIQ/wDAelQUUrsLIK0P7e1jzfN/tW+8zzPN3/aXzv27d2c9dvy5644rPoqbJ7jNGLxFrUFpHawaxfx28WfLhS6cImQQcKDgcE/marrqV8s1tKt7cCS0AW3cStmEA5AQ5+Xkk8etVqKLLcDTtvEuu2RmNnrWoW5nkMkpiunXzHPVmweT7mqk9/eXTxPdXc8zQIEiaSQsY1HQLnoB6Cq9FFkgL8eu6vFqUmoxarepfSDa9ytw4kcccFs5PQfkK1IvG2q23h/7BaXd5b3TXsl3LfRXbq8u9VBVscnlc5J59K5yik4xas0BMby5NqbY3EptzJ5pi3nZvxjdjpnHGetW4fEOtW93NdQavfxXFwAJpkuXDyADADEHJx71nUU7IDRi8Q61b3DzwavfxTSBQ8iXLhm2jC5IPOBwPSo01nU4tTbUY9Ru0vmzuulnYSnIwcvnPT3qlRRZAW7rVdRvr1Ly9v7q5ukxsnmmZ3XByMMTkYNS3GvaxeTPLd6rfTySRGB3luXYtGTkoSTyue3Ss+iiyAvLrWqq1qy6leBrIEWpE7ZgB6hOfl/Cnz+INZui5udXvpi6sjmS5dtysAGByeQQoyO+B6VnUUWQFu51XULyNo7u/uZ0dw7LLMzBmC7QSCeoHAPpxUuoaxNqltbpeQwtPboIxdAN5joOitztOOmcZ4HNZ9FMC3Jq2oyrGJb+6cRMGjDTMdhHQjng1D9pnEboJpNkjBnXecMw6E+pqKiq5pPqTypbItT6nf3SFLm9uJlIAKySswOOnU1BNNLcSmSeR5ZDjLuxJPbqaZRScm9xpJbBWifEWttZLZtrF+bVYzEsBun2BCMFQucYxxis6ikM1JNYRfD40qytmhSSRZbmR5d7SuowMDACqMnjk+9ZdFFHmBZttRvrKNks7y4t0Y5ZYpWUH64NMW7uVaJluJQYf9UQ5/d85+X0/CoaKrml3FyrsWotTv4I2jgvbiNGbeVSVgC3rjPWoWuZ3iMbzSNGz+YVLEgt/ex6+9R0UuZ9w5V2Cr1hreq6UhTTNTvLNS24rb3DxgtjGeCOccVRopDNOw1250+e5uY0jlvbgMPtkpZpYy2dzKd2NxyeSCfSmaNqMGlX63sto1zPCQ9uDLsRZByGYAZYA4OAR061n0UbO4Ek88lzcSTzHdJK5dz6knJqOiijYAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK39JiW00t722mtm1CXMcSyXEaeQvQthiPmPQVgUUAdHbym403ToI7yG3ewuXMu+dVwCQQ45+buOM/rWNqU0Vxqt1NbjEUkzMnGOCaq0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFbOgyPc31vZC1tXgyTOzwKxKfxEsRkYHTBHasati0vrCHQ3tPMuILidv38qQK+5eyglxgdz60wJdFcTaytqi25skdpGaS2jciMZJyzKT0rHupVmu5pY0WNHcsqKMBQT0q3a3sFnZX8cfmNNcKIo3KgAJnLZ54JAAxz9az6kAooopgFFFFABWhpOmLqUlx5kxiS3haZtib3YDsq5GfzrPq3YNapIz3U11buuDFLbqGKsD3BI/MGrp25tSJ35dC9pFnps/iOzgaeae3kdeGtwCzZ+6w38D3BP0qL7BZ3Ostb2090yHccLaZcsM/KqKxz9SRVifW7c+ILG/hhdxahPMkcBXuGByWYDIBP1PTk0Wuo6dZaheNC908F5BJEXMKrJEWPGBvIb8xW/7t2Wmjf6W/roYfvL312QlxoUen39iLx7lbe65AkttkowcEFC3HbnPQ0zXbfT7fxBPFBLMkazMsii3UCMA9FG/5vx20ahqdk0GmQ6ek5Wx3bjMAC5Lbs8E4+nb3pmqXGm3+rPdxzXUaXDl5VaBSY884Hz/ADc+uKJ8lrQtuOPPdOV9mW9Zsr2+8TQWbXQu55o4xHI0SxfKRkZC56A1m31tYW4ZbS+kuJEfaQ1vsUjnJU7jnp3A61p3uuWY1201Sw8+R4BGrRTRKgIVcdQx6/Tisy+/swq72El0ztJkJLEqqi88ZDHcenYUqnLeTWur+7oOnzJRT00XTr1ILG2+26hb2u/Z50ix7sZxk4zir8eibzej7Rj7JcpB9z7+5iuevHTpVCyuTZ30FyF3GGRXx64Oa3JNZ0uOO8+yi7d7u6ScmRFUKFYtt4Y56nn9BRSVJpc/9bW/UdR1E/dK99oENtHf/Zr4zy2DqsymHapBOMqdxzg9cgfjUOq6Ta6W7wPeSvdIisF+z4jfOD8r7snr1wM4qeTWrZ31slJsag4MfAGAH3c88cfWh9S0+HSbqzt5Lu7SQjyI7mJVW35yWBDHntwBnv6UNU3G6/rf89O5KdRPX+tv+CJdrIPCNq0V68tr9pYeQ9uqbH25JDAkkc98VIPDkIeS3kv2S8itTcvF5GVxt3bQ27k4x2xUc15pbeHE0+Oe7MscrTBmtlCklcbf9ZwPf9K1vt1uI7nULwWy3Elj5O+O9WTzGKbRiIDcp6ZzwMGteWEm2+y6v+X/AD2M3KcVp3f5mYvhyFvKhW/Ju5rT7SkQg+XG3dtLbuDwex/CmweHUl+ywPe7L67hM0MIiyuMEqGfPBOD2NSQa9axaxaXTRzeXDZC3YBRktsK5HPTJp6+IlmtbVZtR1S0aCIRNFat8kgHQ53jafXg0NULu39K/wDw3+Q71v6/r+u5N4e0qK01fSZrm6KXNwTLHCIsjbyBls8E4OBg1zEv+uf/AHjXQ2Gt6clzpt5fLdefYx+VsiVSsgBODkkEHk8Y59RXPOd0jEdCc1jVceVKPn+hrTUuZuXl+ps6EJDY6n9lvXglFq7SR/Z1dZIxjI3E5B57Co7PR7aXTIb27vmgWacwKiQbznjn7w455/rS6LeadZW939rluhJc27QbYoFYKCRzkuM9OmPxpjajbLpdtZxea3kXbTb2QLuUgAcZPPHT9a0Xs7Lm7d/73+RL5+Z8vft5f5l3T9Js7e51i21J5DNaQyAFIQwGCBvGWHPPT9awJRGJWEDM8eflZ1Ckj3AJx+dbja3Zy67qlxIk621/G8YKqC6ZwQcZwenTNYcwiWZhA7vHn5WdApP1AJx+dY1OXljy/wBasunzXbl/Wh1XhTwTD4k05bmbVTZPLeiyhT7N5gZyhcEncMDg9jUknga3XUIYYL+/vYriyF3ALLSzLNIPMKEeWHwAMZyWHbjNL4R8X2GgafaQXkNy7Qasl8xiVSCgjK4GWHzZP096unxtpF14dfRrlb+3SbT4rZ7mCJHdXSZ5MBS43KwbB5HI6GuKTqcztt/wDeNmtf61/wAi1pHhK80e+1/S4lmuJb3QBLbo8JilO+SMBWQk7WBBBGT061ir4ItTrU+nf25G39n2j3OqTxwb47fbjKIQ37xsnH8IzV+88caSs9z/AGTFqEER0BdKgL7d6urg7iQ3TA6jv2ptl440621A6ig1C1vdQsmtdUktdqkScYuIiGHzkqCVIAyTzzU/vL38v87f16B0/ryv/X/ANDwf4c0vTtWh1W58rWNGudMuLhPtVqqsrREB1ZCWAI7EE9affeAIZLex0dWjtJo7rUGN0IQ7yxxqjxgkEZBU8c8ZrHj8YWcEk5n1bXtYaXTrm1334HyPIAF2qZGwOOTn04rU/wCFm2Eg8NtPbXRksYJoNQKqn7wPEse5OeThQecelTJVG7x7P9bDjZPX+tP1MLQfA0es6LDqU+qfZYn+0lwLffsWFA5P3hnIPSpde8AppOmfarHVGvWElurI9t5WFmUshzvPPAyMcZ6mrlj4x0DSfDselWaajPsivFM0sKJvaaMKp2hztAPB5PTPfAh13xvYajoVxaWcV1HPJ9iKM6KADDGVbox79P6Vd6nP5XX56/gSlpr5/wDAM/xOjxazF4X0w7bW0dIggOBNMQN0jepycewGBVKGxsbLWreGK+knuYbqNHX7PtQndztbdk4PqBmrmvXkU2sW3ibT5YH89kkmtzKvmRzD7wKZ3bTjIbGOaoSXekjUhfwG88w3CzGFo1CoN2WG7d83twK9CjyqzlvfX/gf12MavM9FtYn1rS4JLjVLu1vDK1vdYnRodqruY8q2TnB46Co73w41vps95C12Y4Cu43NmYVdWOAUJY55x1A4NLDrtvC+qP5Ujm7uY5o1IGMLIWw3PHH1qW+1nTZbbVjb/AGx7jUXVsyqoWMBw23hjnvz9OK0apON+tjJOqml00/T/AIJX1DRbLTHWK61F/NkhEqKltkDK5AY7uOeOAfWsWtHXNQi1LUFngV1UQxx4cAHKqAeh9qzq56nLzvlWl2b0+bkTludneaX4ei+G2m3q3F2t1NczgyixQmRwqfIT5vCAngjOck7RRb+AY5jY2L6sU1q/sjeQWQtsx7dpZUaXcMMVB/hIHrWemr6Vd+CINH1Bry3ubO5lnhkghSVJd6gbWy6leVHI3fSttvHcd9Z2Jutd8R6bJbWi28trpzjypigwrhvMXYTxn5GrOXW39af5mkb2V/P8/wDIkg+GVnIkXma/IkrC0LothnabnhAD5gzg9enHPJ4qlH4Dso10uPUdca3u9Unlt4I0s/MVXSUx/O28YUkDkA9enGa0oviFpSSqzW94cf2Zn5E/5dmJk/i79vXvird/rGiQ6f4V1zUFviYri8u7eCKJCJf9JZlV2LDZzjJAbvVStfyv+Fv+HEr8vnZHNaBbTXlxf+E9UOdiym33HP2edMklfQHBBHesDTrSxuUuTf6kLFo4i0KmBpPOfsvH3fqa3dL1FbW41PxRezQC6nEotbeORS5lkJBYqDlVUE8nrxiq3hrTbOew1S71iydrSO2cRXRkKLHNj5VHZ2PHH6VGtrvtqVpfTv8A1/Xqc7RRRTEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFWItPvJ4DPBaTyRLnMiREqMdeQKr1saBHI19HezzPHaaf+8dyTgc5CD3Y9vrQBnQWV3dI72ttNMqfeaOMsF+uOlQV1NtPA9rpkt472mbx5YFiGQ4LDJbptweMjPGeKwNUEg1a7E0Yjk859yKchTk8CgCrRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWjFrBTS0sJLK2mhRzJ85kBLHudrDPpWdV600v7YIgl5apNMSI4XZtzHsOAQM9skUASQa08MUcbWltMkMhkgEgY+USc4GGGRnsc1Qnmkubh5p2LySMWZj3Jq/b6JPOqb5Ybd5JGjiSZiDIw6gYBA545wM1nujRyMjjaykgg9jQA2iiigAooooAKKKlt7ae7mEVrBJPIRkJGhYn8BTSb0Qm0tWRUVo2eh393q0dg1rNDKxG4PEwMak/eIx0qObSL+G++yGyuTMclE8lgzgdwMZxxVckrXsTzxva5Soq2ul3zX6WRtJ0uHxiJomDY9cYziptQ0O90/UjZvbTuzOUibyWHnY7qO/4UckrXsHPG9rmdRV7V7aC0vvKtobyFQgLJeoFkDd+B29KiuNOvrSJZbuzuII2OFeWJlB+hIpOLTfkNSTSfcrUU+KGSeVYoI2lkY4VEUkk+wFOW2ncSlIZGEIzIQhOwdOfSlZjuiKirE+n3ltCk1zaTwxSfceSMqrd+CRzVm+sEs9OtWe2v4LqTcZDcRbY2HbZ3PvT5HZt9Bcy08zOorW0/RJZ7a5uLuC4ihS1eaGTYVV2GMDJGCPpWTRKDja/UIyUm7BRW6NGhh8GyajeafrMd1JMv2a5FuBZtHxnLnkt97GOOKpp4f1mWza7j0i/e2WPzTMts5QJ13bsYxwefas+ZalGdRWhZeH9Z1K1Nzp2k313bqSDLBbO6AjqMgYptlomq6lbyT6dpl5dwxHEkkFuzqnGeSBgcU7pAUaKu2Wi6pqSK2nabeXas5QGCBnBYDJHA645x6Vr6T4E1zVItTYadewtp8RZo2tHLSSZX92Bj72GBx1xzik5Jbgc3RXSeGfC0Gt6pdabqV3d6beW8ckjR/Yg+BGpLBsupVuMYx+VZkOi3mo3Eg0Gyv9RgV9iSJaHceM4KqWAOATjJ6UcyvYDOoq7b6Lql3qEtja6beT3kOfMt44GaRMHByoGRg8Vr654Uns9V0/T9Jtb27ubjTobqSARl5Fdly4CqMgA/l3ockreYHN0VdfRdUje6R9NvFazAa5UwMDAD0L8fL+NLDouozTWUYsp0+3tttXkjKrNzjKkjBAzyR0ppp6IHoUaK6O58PWUn9pRaXczSy6XGvmsVDLcPuCtsAwVAPTO4n2o07wfcXtn51xK1m6XDRTRzQkGJFj3s55z07Y5yOaa1VzGdenC6k9v8rnOUV0ln4Ui1GWwez1B2s7tpUMr24V43RSxBQMQcgcHdSWPheHVHsXsL92trm5Ns7y24R4n27vuhyCCPenysh4qkr3e3k/P/JnOUVs3Wi2qaaNQsr6S4t45xBcB7cJJET0IXcQQcHuKnu/D1nDc6VBBqE8j6kI3XfahAiOcZOHPI9P1oSbK9vT79+j6HP0V0tx4Pa3vr+BrzK2rQBH8r/WrKwXPXjGffpUWoeGoLdNRFjqD3E2mybbiKS38vK7tu5SGbIBx1xRYSxNJuyf59bf5o5+itzV9G0zR76aym1G7kuIgM7LJdhJUHr5ue/pUknhdYp7iR77/iXxWi3S3Qi5kVuFULu4YtkYz2NFh/WKdk77+T/rqc/RUnkTfZ/tHlP5O/Z5m07d2M4z0zjtUdI3CirE2n3lteLaXFpPFctt2wvEVc7vu4UjPORj1q0nh3W5I7iSPR9QdLVis7LauRCQMkMcfKQOuaAM2ir9loWrakivp2l3t2rlgrQW7uGK4zjA7ZGfqKs6b4Z1a+1M250q/KQTLHdlLd824J53cfLxnr6U0ruwm7K5j0V2P/CJ2dv4q1u1nsddvNL09pY1m06ASsjj7pkJG0DGSelc5YaLquqKW0zTLy8UNtJt7dpBnGccA845qU7opqzKNFXrbRNVvbya0s9MvLi5gz5sMVu7PHg4O5QMjnjmtjxB4Sms/E50nQbW+v3FrFOY1jMsg3IrNwo6An0piOZoq42j6kv2vdp12PsWPtWYG/cZ6b+Pl/HFR3FheWkME11aTwRXC74XkjKrKvqpPUe4oAr0UVLbQPc3KQxRSSsx+5Eu5iO+B9KaTbshN2VyKir9/ZKuqy22n216FUZEVzHiUcZOQPz+lRPpd/HcRwSWNyk0v+rjaFgz/QYyafJK9rC5o2KtFaGr6Ld6NdNFcxSbAQFmMZVXOATgnrVBEaR1RFLMxwqgZJPpRKLi+V7gpKS5lsJRW9r2ixacumW9vputWt/NEPtEWo24j3yZA/cgDJXORzz0qheaFq+nWq3OoaVe2sDNsEs9u6KW54yRjPB49qkooUV01j4QuT4c1bU9Wsr6zFtapPaNJEY0mzIqnll+YYbPB9Kx5dE1WHTU1GbTLyOyfG25e3cRtnphsYOaNgWqv/X9alGir/8AYOr/AG82P9lX32tU8w2/2Z/MCdd23Gce9UKACiitGGxT+xZ7u4tr7dkCCZIv3HXB3MfyGO9Uot3sS5JbmdRVqHTL+4i82CyuJY9u7ekTEY9cgdOD+VWbHQL+/wBNnvLe3mdItoQJEzeaScHGPTvTVObdkhOcVuzMopWVkYq4KspwQRgg1LLaXMNtDcTW8scFxnyZXQhZMHB2nocHg4qCyGitG38Pa1dzLFa6RfzyNEJ1SO2diYz0fAH3T2PSooNI1K5mlittPuppIXEcqRwMzRsTtCsAOCTxg96PICnRWmfDeuDUBYHRdQF4Y/MFt9lfzCmcbtuM4z3rsIvheL1jFa3c1tcx6RDevBcRBi8zlh5f8OzlccgnmjZX/r+tA62PPKK3NR8MXNnpun3lsJrtbqyN5KI4Di3UOU+YjPHHU461TttA1i9WM2ek31wJV3xmK2dt6525GByM8Z9aOtg6XM+ird9pOo6YsbalYXVosufLNxC0e/HXGRziqlABRTo43lkWOJGd2OFVRkk+gFX9SsEhv4raytb9JGjXMV1FiQuf7oHb0qlFtXJcknYzqKsyabfQ+V5tncJ5xxFuiYeYf9njn8Ks6poV7pSRPcQTCN41YyGJlVWYZ25PcU+SVr2DnjdK5m0UoBJAAyT0ArQuvD+s2Vobq90i/t7dW2GaW2dEDZxjcRjOeKgozqKuNpGpJdTWz6fdLPbp5k0RhYNGnHzMMZA5HJ9RVl/C3iCNGeTQtSRVVnLNZyABV+8enQdz2oAyqK2H0q3ufDn9qaa0m61ZY72CVgxUt92RSAPlJ4weQe5zWalndSWcl3HbTNbRsFeYRkohPQFugNAENFFFABWzpEKWEH9s3gykTYtoz1llH/so6k1jVag1TULaIRW19cwxjokczKB+ANAGxp11DqUumw3SXH2mGdnQxoCsoLbjkkjbg5ycHisfU5kuNWu5ojlJJnZT6gk0g1G9EMkQvLgRyEl081trE9cjPOarUAFFFFABRRRQAVraEb0NdLZWbXkckPl3EUed5QkcrjnOe+CPUVk0VcJcruTKPMrHSR2cel+LdJUzOFLRSNHOQHt8n7je/ft16CjT9Jmj1q+jvrWcSeRK8Vs25PtJz93jBYd8DriuborX2sf5er/G3+Rl7KXfodRrUbW8GgfaLeO0dd26JWYiMeYDg7iSOvQniqfiHTb5vElyUs53FzM7QFYyRKOuVx149Kw6KU6qn0HCm4637/5nZ38LWXjTTbrUIXitQsKmWWMhAwQdzxwfyxXPapYapbPPPqEM6o83MkgIWRucEE/e78jPX3rNopTqKd9Orf3hCk4W16JfcSQTPbXEc8Rw8bh1PuDmutv5LbTjHIm0Qatdx3Le0Qw2D7bmP/fNcdRTp1nTVrf11+8dSkptP+v6R2F/DdQQ+Ipb8N5N26/Z2bpM2/KlPX5fSqmpabfReENM82yuEEMkzS7omGwEjBPHGa5qim6ys9Olt/O/YhUmmnfrfbysdxcRXb6hrV4A32CXTiIZM/I67V2hfXHPTpXD0UVNWp7Rp2/q7f6l0qfs1a/9WsegaVoGsSfCPVlj0m+dp723mhC2znzIwrZdeOV56jitrSJpH8afD+BpGMS6RwmeBuWUNx7gDP0FeS0Vxyp8zeu/+VjWOit6/i7nouiaTqWu6bpGnalp93a6faiaWw1y0P7u0BZmZpT90gMv95GGO/Aq/pTlvCvhd9F0vUtZl0q7maRdMugipN5uVMi+Uxwy4wTjjIzXldFN07vfz/P/AD+/Ub1PQtZvpx8NdW2Q/YRdeJpBNbJJuCDy92zI4YAge3ArO8ErcajZeJbWLfc3k+lbIYgd0km10+VR1OFXoOwrjqKPZ+649/8AKwOTbT7O/wCNzvvhroerJ4mvWfS7xRDZXMEhNu42SGI4Q8cMcjjrzVSKO+0v4Xa1aXEc9pM2q28c8MilGx5bthgeeoB/KuMoocG3dvt+DuKOjv5t/erHr/iaCe+Hiyw0mGS41K4i02V4YgWlmiEY3EKOWwxXP1FW9RDkappl5Fc32rXGhWCmCzuVSacLnzgjbW3diQAcgGvFaKj2Olr/ANWsO+39dv8AI9VtZb//AISywv8AUdLutE0/SNICX/22QTPPbZZQkg2r8z/dCkZ4yOlVL2Y2/wAUtH1h5AdIvkT+zZFXakURTYsYHQFCcEfj3rzWitI07SUv66/1/wAODbtb+un9f8Mdr4Kgaz8W6lZah8uyGQTAjujqT/I10Mupx3+n2B8yNZdatbgdcAzeWiAfiVx9TXmmoapd6pJHJfyLLJGgTzPLVXYAYG5gAWOAOWyaqVrf3eVnn1sEqtV1b2/4b/hvuPQ/DMMmlw6TY30TRXUt1cXP2eVSrKggK5I6jJBp3h+Q3g8PzaZbR21lFeOLuGEMQs2DtYliSQVIA54PHpXnVFU5XFPBc13zavy9fPz/AAOqexutO8L31teQSxXWo3ka29sykSOFLZYJ1xkgZ71f1DTr2DVvCks1ncRxxQ20cjvEwCP5h+UnHB9q4aiknZp+n4Gjw8m7829+ndW7np5kS70O9uM5ng1BLWTj+EXIZP0YisvUbWfTL/xVfX0clvDdb4LfzBt89mkByoP3gAM5FcJRRe39dzOGC5G/e0b7enn5Hb+MINbl1q8FvpTS2jKmJ101WJGxcnzdmevfNPubUyeHj4Ujdm1GyiF2yqfvtks0OO5VWyPfNcLRSuWsK1GMb/D5dV1ev9XO8TxzZr4V+yNDIbncELYj83Hl43B/L27f4NuC23vXB0UUutztWise96IbG/tvD1vOFL6zaQzu5bobTYQP0esdHvNb1vwhrOi7jp1rPPJeSpnZasZi8plPRcoR1xkV45RTb97m87iStHl+R6F4hvR/wq8rYSbbS58QXJCocB0ABUfTofwFWNGTVNZ8KeG/7HMtxJa6u8t+6MS0TZXZJIey7Qw3HjjFea0Uo+6/u/C3+QNXX3/jf/M9b0jS9Qufix4purexuZbfZew+dHCzJvKnC7gMbjkcdea5kJfaV8KL+0uEns5jrcSTQyKUb/VFgGB56gH8q4qilFWt6Jfc7lN3d/Nv71Y9j8YW13qMPiXT9Che41CS9spp4YATK8XkL82ByQHIJ9M5q3rm24l8Taa1tdajqM0Fg0lvY3ISaeNYxu2nY+4BiCQAcg14jRQ9VYS0PWLa4vf+Ey/tfV9Mn0jT9N0hI9Sju5BM9zEVKqknyr87/KMEA8ZrmvG+n3OoeM4J1uIvsGqpG2nXEn7uFISAFT/Z2dCPx71xlWtOvRp94tybW3umTlUuAxUHscAjOPQ5HtVbtN/1/X9bhrbT+tv6/wCGF1TTZ9I1W40+6KGa3coxQ5Un1BqG2tp7ucRWsMk8h52RoWP5Clu7qe+vJbq7kMs0zl3c/wARPWoaIu1mwfkdzNBc23xCluHhliV4nMUjIQGIh7HvisK5O/wXZO5LML2UAk+qqTWHRXRKve+m/wDmn+hzxo2ad9rfgmv1NzxZazrrk900Mgtpipim2nY/yjo3Q1jQwyXEyQwRvLLIwVERSWYngAAdTTKKxnJSk5GsIuMVHsena1o2qW1v4DkuNNu4o7WOOOd5IGURMZ+FYkfKTkcGrLXCTah8QpdUZpoI9Qtmk3kt8i3JGPwUY+nFeUUVKdnfzb+93KSSjy+n4Hrmr2eqRp8QNQ1FJPsF4IngkJ+S4QTJsZD/ABAIQMjOMgVL4kupv7T13UtN8P6lf2F/pZiW+N6psxDsXayjyuCpH3d+c57mvHqKm2liru9/O/5f5HrdzDeN4BbwwJi3ieGwSaWJYv3ptNxb7Lu65UFXK9cfLXm0eh3EvhybWUmtzBDMIZIg/wC8UnoduOh+tZtaEusSvo6aZDDDb24YSS+UDuncDAZySenPAwOTxTerb/rf/L8dRLZL+v6/TToZ9dHpGm30vhXVjHZXDiYQmLbEx8zDnOOOce1c5RWlOai22iJxclZeX4HXWUkiyeFI9zKolYlc458zBqpbW0lxY+ILWziaWUyxlIoxuYgSHOAOTjIrnKK1de+67/ikv0MvY22f9XuK6NG7I6lWU4KkYIPpXrfgW9tY/AdndXSBzBeyaXtZsDbcvEWP/fIevI6K5zfrc9i8W2dzfaNqug+HEkubvTr60ilt7YFpGhS3VQwUc7Q+foeaTWNQMTePZrO4Vp1sLKGeaFusnCScg9eoP4149RUtX36/5WKTs15f53O08Jm81DwX4m03TvNuL+SK3ENvHlpGhErGRUUckZYEgepruL27vdDtbi6uiTeWWh6Y8mW3Hek/IJ79MGvE6Kq7vf8ArZoXr/W3+R7t4gtYVu7nTdJUzG98NTtZRRjJkDTmQKoHU7TwB6VQS1utK8Bw29wrQXMei4dM4ZM3i5U+hwcEduhrxiikrJp/19r/AOSE1ffy/C3+R6r8UFM+ny72G46/Mgdz0HlRjr2HT8q861vRrjQdUaxu5IZXVVcSQPuRlYZBBwPWqtrOltdJNJbxXKqcmKbdtb67SD+tSajqNxqt/JeXjK0smPuqFVQBgAAdAAAKlK39dkkV/X43IIYZbiZYoI3lkY4VEUsT9AK7KayuofFHh+Wa2mjjWG3jLvGQAwHK59fauKorppVVTW3VP7jCpTc+vRr7zopmabwvqjysXb+0VbJPchsmovENrO6WN4kLtamyhXzlUlNwXBG7pnI6VhUVLqXhytdvwTX6hGnyyun3/Ekt/wDj6i/3x/OvWNVmkuPFnxCS4keRE0wbVZiQNpj2/l/WvI6Kzv8Ar+Jr1v6fgez3unXcnizxVriwsNNutE/0e5P3Jsxxn5D/ABfdOcdO9bLSO/iSVHdmX+35htJyMf2eeK+f6KT1VvK343GtNf62sdN4eY2nhPxFdTcQSwR2yA/xyM2Rj6AE1Ss7LU5vCeoXVrqASwgkT7RZidgXJIAbZ0Izjk+ntVK51S7u7G3s5pF+zW+THEkaoATwWO0DceOpyakOryrop0yCGGCGRg07xqd85H3dxJPA7AYFDBGfRRRQAVp6XbWN7cW9nJFdGeZtpkjddqEng7dpJA6nkd6zK29FS5tpoJk1C3htZDunRrlRlQSCrRk5PGeMHrTQmOs9FtS9vFdtNJJdTPHGYGACKpwXOQcjPbjgHmse6t2tLya3c5aJyhI7kHFdKl1a3VjBDZTw26w3DpIZZQjLAX3Dbnk57gZPAHeuf1O5W81a6uU+5LKzLn0J4qSu5VooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK3fDt3O15b27aj5MCvj7KScTA5yuMbTnp8xHWgDCorodGuZFutTtkQQxG3nYx7AGGFOATjPHp0rnqQwooopiCiiigAoorQ0+xhvbO+5cXMEPnRAEbWAI3ZGPQ5/CqjFydkTKSirsz6VVZ2CoCzMcAAZJNdAug2UcKyXEsx8myF1cqjKMljhEXjjqCSc/Sq89lZ2kunXkP2k212pYIJgskbKcH59uOvOcCtvYSTs/61t+ehn7aL2MmaGW3maK4jeKRThkdSpH1BoMMqwrK0biNyQrlTtYjqAa37jSY7jxhe2t1dXEkFuHklmkfdIyquep79qZqptj4V002ayJGZ5vklYMyn5e4Az+QqfZWi5Pp/mkJVU3FLr/AJNmBRWx4S0i317xZp+mXjyRwXMux2iIDAYJ4yCO3pW0nhnRtStIrrSmvoo4tVjsLhLiVHLo5+WRSFG08N8p3dua53JJ2Zv/AF+f+RxtWLiwvLSGCW7tZ4I7hd8LyxlVlX1UnqPcV0HibTvDeh6tqOk2qanPcWkpRLlriMIxDDKlNmRhcjdu5IztAOBa8TWMLWPhZ4bvU3tr6AlIL27E/wBnHmbNqHaoAwPSpU+bla6/5XCXu3v0ONoru9a8IaHAviSDSH1A3GglC0txKhSZS+1htCAqRkc5OcHgZpvittFXwX4b+zafdxSSWsrQsbtCEPmnJcCIbycdQV7daSqppNdf8rlcrTt/XT/M4aiu91HWtUk+DemrJqV4wk1CaBw07HdGEXCHnlR6dKfP4L0I3k2l2kmoG/XSBqImeVPKVvLD+WU2ZIIz824YyODjJPaJXv0/4cmPvW8/87fmcJbWlxezeTZwS3Eu0tsiQs2AMk4HYDmoq9R8L6LpOg+JbS0Z7uXVZdHkupJRIvkqXhY+Xs27uFI+bd17c8VdK+GsN5a6PDNa6xLcaram4+3wR/6LabgTGr/Id3Tn5lxkUnVSbvt/w/8AkC1V/wCun+Z5xUkFvNdTpBaxSTSucJHGpZmPoAOtdpo/g/RtU0RtUku7m2i0pnXWYywZjgfIYTtx8xG3DZx796FiYdO8G6rqtiHiluroWMJdtzxREFmG4AckYBOB36ZrRSTv5f0h2f8AX4nMOjRyMkisjqSGVhggjsRTa9Bg0GDxF4X024mmkSSCxeKHaR88isxCnI54U8CpvGGpT6O0VxpkrQyT3r+c8bYLiJVUIT3Xrx05rXl6P+tTzljlKapxjrr+HyPOKK9Nv7K/hgurTw3OLKRtY4VLgQjDQqdoyRkZP3Rn6VR1XUhZ6RrNzoFy1uv9pxDfbkoCfLO7GOoLAn0NJq2/9bf5ijjee3LHfz/PQ4CivQLKaSD4jaZJbO9uNRt457iOMlFdjGScqOOvP1NQeE7o3keuDU55JhdNDbSSSuWOHZkByfTI/Kjl1t6lSxbUXLl0snv3du3Q4aivRpzdaXo92I5JLe5t9Ft03xsVZWEzA4IpNOle5ii1V5/s15c6LcCW6wVO5GCiQlQTnGOQM8UW/r7/APIn67pfl0vbfyv2POqK6mw1a7j161hutYbWre6zbzRiSVvkf5SP3ijnoePSrWp6U0usWfhS3lljgtYi/mJA8nnSsNxfauSRyBnsAfpStpc6FXftFBrfX5fd3t95xlFdP4v8JxeG3Rre6e4ikYBSI2Kj5c/6zAUnOflHIGKp+EdGttf17+z7tpl8yCVojCwB3qhZRyDkcYx+tLudJiUV6Ta/CjI8u6vJDJNHa+VIihVillkKurA53bQCeCM1kXfhvQ7vStSvNDkvozpd9HbzLdSpJ50bsVV12ou05B4O7r1p21t/XRfqhX0ucbU0Npc3EU0sFvLLHAu6V0QkRjOMsR0GfWuv8R+H/DekeJ7nw7ZjVJ7xXWKK6eeMRiRiNqsmzJABGWDDntWwNN0bRtJ8baZpbXklxZWscM008iskxEi7iqhQUwwIwS2R3GKm+lyutvT8Tzp7C8jsY72S0nS0lYpHcNGRG7DqA3Qmq9ddrNtD/wAK30e9s7nU1hku5YjZ3N4JYUZQCXRQihSSx9evWtO/8F6Al9qelWEmom+stL/tDz5ZUMZIRXMewICeG+9u/Djl9X5f5XEtbef+djhLa0ubyRo7S3lndULssSFiFAyTgdgO9Q16noOiaT4e16405Xu5dUGhyzTTGRfJ3PEWKBNuRhSPmLHPpzVe1+GEU0djZNa6w13eWH2o6iseLOGQqWWNhsJPAwTvHJHFD0f9ef8AkC1X9eX+Z5pRXb6R4S0PU/DY16S7u4LTTlZdWhLKZDJj935J24w5OOc7feuKlMZmcwqyRljsV23EDsCcDJ98D6UbOwdLjaKK67SZp4PALtb6t/ZbHUsGXfKu4eV9392pPv6cU0rmVWo6aTSvd2/rc5Giuu8Nalfpfa0Bqk8//Evnl81Znw7hRh/mwcjsSM1Vjkeb4e38sztJI+pIzOxyWJQ5JPc0PRX/AK3sZe3alZrql9/yOborq/DMssXhXW3g1D+znDwYuNzrt+Y8ZQFufpT9D8PnxXrbLqGtyXaxFA1wFlZSpzx5jr8h9NwwTxTaLjVcpyjbb/JPt59zkaUAswCgkk4AHetPxBo39h6kLTzmm+QNvMLRg9fu7gNy8cMODV/wCLNvHWkpfQTTBruIR+XMECvvGC2VO4ewx9aILmaRtJ8qbMjUNI1LSWjXVdOu7IyAlBcwNHvA6kbgM1DbWlxezeVZ28txJgtsiQscDqcCu4bStC1/xt4hNzHqVvFZRXd3OwukkaV0f+H92NoOTwc9uaxNZ02103TdG17QZLqCO98zEc8oeSGWJgDh1VcjkEcCoi7pN9SmtbI5yiuj8YwQf2pZX8aiMalZxXcqIuArtkNge5BP41k6r/Zn24/2Gbs2u0Y+2Bd+7v8Ad4xTEUqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArQs72xtWgmawkkuIeQftGEZgcgldufTgEdKz6uW+k3d3GjwJG2/OxDMgd8eik5PTsKALFjq8VvdXVzdW0k81yrqxSYIAH68bTz+NZshQyMYlZUz8qs24ge5wM/lVu30m8ukVoY0+ZiqK8qIzkdQFYgn8KpsrIxVwVZTggjBBoASiiigAooooAKt6ZfHTdRjudnmKuQ8e7G9SMEZ+hqpRTjJxd0JpSVma668TqV9PPb74L1DHJCHwVX+Ha2OCMDnH4U2fVra4ktEks5VtLOPbFEk4D5zkksVIOT7CsqitPbT7keyh2NyfxBDJrsmpRWTr9oDLcQvOGDqwwQCFG3j61Vv9UgudMtbG1tGgjt3dgzy72bdjrwPSs2ik6smmn/XUFSgmmuh0XgG6gsvHuk3F5NHBDHPl5JXCqowepPAq1P4vtbWOGz0fTWt7WPUxqE4kuhKZnU/KqkINqgZ7E89TXJ0Vg4JyuzTv/Xf/M0tX1SPWPEt3qk9uyRXVy0zwpJ8wBbJUMR198fhWxq3inS9Q07Sba30m8gfSV2QPJfrIGXfuO4CIZPbIIx6GuVopqKSS7bBL3m2+p1Nx408+48TS/YNv9vADHnZ8j593935vTtVS78QWmoeGbHTb3T5Tc6ejx29zDchFKs2750KHdg56MvWsGikqcUrId23c6e78SaRP4Qh0KLSL2MQTPPFM2oI37xlAOR5IyvHQEH3qZPHOzxDLqn9nZ8zS/7P8rz+n7oR787fbOMfjXJUUOnF3v1EtNv61v8AmdrY+PbW3uoNQutFa41OKwNiZxd7I2XaUD7NhO/bgZ3YODwO2d/wkmmX1ppya/o817Pp8It45IL3yFliByquuxicZIypU4/Ouboo9nG9/wCuv+bD+v6+463S/HR0ez0+wsdPAsIvMN/bvNu+3mQbW3Hb8o28Ac4681S0zUrCSx1PSLpms7K7cTW0khMn2eRc7d21ckEHaSB6HFc/RTUUm33A6Wy8Wy6ZYadYwwrKun3bTmQOQJhzxgjIGGP59KbL4phvWkGqae08QvWu4VjuNhQseUJKncp47A8da5yiru/6+X+Rz/VqN+a2vz/rqbt54pury2YMgS5OofbhMrfdO0AKFx2wOc1ZufE+nXcN3DNo8qxXdwty6xXgXDgEHGYzwc5x+tczRRcPq1LTTb1OitvFESeJBrF1YtI8IVbeGGcRpGoXaFOVYnj6c1UXWoba1v4LC2liW7aJlaScO0bI27OQozn8Me9ZFFF2P6vT7du/TY62+8bRanNdNd6Y/l3Volu6xXIUgq5bcCUPUnpiqsfiqNLllOnkWIsWso7eOfDIrcli5U5YnPaucoouyVhaMVZL8X/XQ2rLV9P0u5a607T7gXAiZYnnulkEbEYDgCNeRzVe71f7ZpVpbSwn7Ta7kW5D8tEf4CMc4JODnoSMVm0UjRUYKXN1LF9f3Oo3LXF7KZJGxk4A6AAcDjoB+VW/Dmst4e8RWWqpD5/2aTcYt23eMYIzg4yCazKKadnc0aurHcP8T74WXlW1osUy6udSSRpNwAySIiMAkZPXI+gqjfeMLR9PvLTR9JeyTULxbu7Mt15xbadyomEXaoJJ53H3rlaKS02/rb/JDev9ev8AmzZ1/wAQvrPi6416GH7LJLMsyR79+wgDHOBnp6Vs3njixuLXXPI0NobzXEUXM32zcqsGDEomwYBIJIJJ568c8bRSsrWDrc6i+8S6PdeEYNCh0e+iW2lkmhmfUUY73AB3DyRleOgIPvUr+Od/iHU9U/s7H2/TTYeV5/8Aq8xqm/O3n7ucYHXrXJUU+/n/AMMC02/rW/5nbQeP7VLh7+40RpdVl082EtwLvbGw2bA4TYSGxtB+Yg46DNZ8/iXS9SitJNc0Wa7vbW2FsJYr3yo5VUYQumwkkDHRhnFczRQ9d/63/wA2C0/r0/yR1+nePP7LtLDT7TTf+JXFFIl9aPPn7c0gw7M235eMbeDjHU1U059OtvDesSXcFmVugEsUd1luY3DcdOVAGckhc8Y9K5uih63/AK/r9A2CtD+1P+Kb/sryf+Xv7T5u7/Y27cY/HOaz6KCZRUrX6Gvomr2elJc+fZT3ElxA9uzJciMBGGDgFDz75/CpLfWbCLSLnTJrC4e2muBOhW7VXXAxgnyyD19BWJRTuZujBtt/mzbtdZ0+2sb+x/s+5a1vDGcfa1DoUJP3vLwck+lUl1AWWoxXWjCa1MTB0EsiykMO/wB0Dv6VRoouVGnGLbXX1HO7SNudix96u6Hqf9i6/Y6l5XnfZJ1m8vdt37TnGcHH5VQooTad0aPVWZ2vhPWrI+IfEmoakI44bzT7o+Q84QuXYHy1Yj73UDj8Kzb7WLTXV0rSkxo+k6ejBDO7Tvlm3OxKIMk9gFA4rnKKWmi7f8H/ADHdm3rF+uv+II1sVjitokS3tVuJFjURoMDczEAZ5J570vi650+515m0qK2jiSJEk+yJtiaQD5ig9M9+/WsOigXUKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArT0CS2j1e2NxFI8nmr5TK/wAqtnglcZbnHAIrMq9BrF7bRxrC8amNSqP5KF0Bz0cjcOp701oJl+xsWXVrm/1JttvYzFpXT/lpIG4Rfcn9Kx7qdrq8muHADSuXIHbJzVmLWL2K1FsHikiDlwssCSfMep+YHmqcjmSRnYKCxydqhR+AHAqShtFFFMQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWhYWNnevDA15JHczNtVRBuQEnABbcDz7A9az63tAt9TgvLeeG03W0py07RAqqchj5nVMDPQg00JlK20+1kuFtrm8kiuWlMW1IN6qc4GW3Dv6A1SuIHtbqWCXG+JyjYPGQcVuada6hb6uJ9NtjcWrznbO8QcbQxGd+PkPvkHvWRqIiXVLoW0hliErbHLZ3DPXPf61PYrqytRRRTEFFFFABUiwTPC8yRO0UeN7hSVXPTJ7VHWv4eYTXc+nv92+haIZ7P1Q/99AfnV0488uUicuWNzPjsbuUwiK1mcz58oLGT5mOu31x7VJFp1z/aSWk1ndebkF4UiPmbepwv0rpvN8261LTLQgzW+ni0t1XrIVIMgX1J+b64qnqFpdSxaLZCCWW+hhJliVCzxrvyoYdRx/Our2Ebq2v/AA7X6X9DBVm9Hp/w17/p6mNfWirq0ltYQXYG8LHFcJ++z6EDvmrF/pDWGj2txcRzQ3Msro8cq7doABHBGe9dDcQz23jy/d4nikuIpVtHdSodymBtJ6+nFZWr29za+E9LhvUeORZpsRycMo+Xgjt6496iVJRhKTX9XQo1XKUV/WzMKGGW4nSG3jeWWRgqRopZmY8AADqa2tf0WK01W0sdL07WoriWFN9vqNuEleUkg7FXkqe3frWPbWtxe3KW9nBJcTyHCRRIWZj6ADk16le6TqNr448CT3NhdQwx2ljA8kkLKqyAnKEkYDe3WuKTs0dWyb7I81vNG1TTreKfUNNu7WGb/VyTwMivxngkYNbC+Ebm28J6tqesWV9Y3Fq1v9mSaIxrIHZgxwy5OMDoa7HQruJrbWLvV5d8UPie2ld5W4X94wLHPt19hUjWupaZpXii68TRSx2Uut202Jc4kUTEs6jupXaMjg4x2rH2renp/wC2/wCZT0vbz/X/ACPNJ9C1e2toLi50q9hguGVYZZLd1WUsMgKSMEntik/sTVPtVxbHTbwT2yeZPF9nbdCvXcwxlRyOTXpPiZ7zzvFD23hvU7u31YJi/kvFktnG9fJeLEQ3H5lAUMTg47GneI0ubrwTLoUV19o17S4IJNXCxjfNCuSE3D73lblz+famqrdm12/r5dR8utv6/pnN6n4CtbW81TTrHWZLnU9NthdPBLZiJJY9oZtjh2yQCOCBntXLnRdUXS/7SOm3gsP+fowN5XXH38Y68da9U1iyudM8feItfv4ZLbTV0sxRzyjYk8j26qqIT985zwOmOaTVLw/2pJq+keHtR1PT5tG+zrcreKLNYPK+ZSPK+UqVOVLg7h0ycVCqySvvp+Oug0r/ANen+bPL4tA1ifTTqEGk30lkFLG5S2cxgDqdwGMDBz9K0rXwPrd54XOtW+n3cqGdY44o7V2aRCpYyDA+6MAZ55PbHPS2+j6pr+l2y69Z3el/YNLItNZjOLZoNuVST+E5DFcqwPOCp5rK0uwu9W+Fd3a6XbS3tzDq6TSQW6F3VDCw3FRzjPGa0lUetulvzsSle39dLnO2egaxqCI1hpN9dLIGKGC2dwwUgMRgc4JAPpmlg8Pa1crcNbaRfzLbMUnMds7eUw6hsD5SPQ10ms3M0fwg8N2yOyxSXd0zoDjcVYYz9Mmt3SYtT1bT/BF3pDTTx2V5K9/KrE+Q5lDM8pzwCnOT1FPne/nb/ghsjzV7C8igt5pbSdIrrPkSNGQsuDg7T/FzxxWlpnh6abUbqLV0msILCMy3nmRlZEXsoU/xHIAz613vh+70zW9U1eC6mX7HouqSa1asvRoQzb1HsT5Zrl9Pv5ta0XxZuOby72XrD+8qyFnA+mc04Tcr6dL/ANfjf0Br87f1+H3mTdaE0mnWl/pUdxNHdNLi32eY8SoR1YAbuDnO0Yq5deE4dPsVvdQ1Fo7Zo4iDHb73Mkg3bQNwGAOSc/hW94R1KOx8HR3EpXMd/wDZhu6bZDGW/wDHQ1O8V282pWt/pmnI1xcWN5CfJjG5zH5CruAHJAPX610ctlp5f1+J4/1qq63I3ZJvX5/8Gxz8/hSKxi1CbUL91htHiCNBbiQyrIMq2C6447Uj+FYrZL2e8v3W1toYZ45IbcO0qSHCnaWXafUZro9UvLWHSdTSaCK+itDZW8yF2ALKpDYKkHI5HXrTdSs7+8tNf+zwPcQ3FvatYLBESDDvyoUDPQdfxNDSu7EQxNV25nbbt/d/ze5y7eHoI9cs7OS/dra+RGtrmKDdu3HA3KWG3nOeTjFWLHwpDqWvXum2moODaI2ZJbcLvcNt2gBzwSRzn8K0WtLhtf8ADenwwyTz6ekRuhEN/kky5IbHTGRn0pYI7vTNe8TTywSwP5Ms0RkQruHnAhhnqKLL8/wNXXqOPuy1su3e1/uMqx8LLcWcNzcXjwo9rPcOqwbmQRNgrgsMk/hTrXwpFe3lh9l1AvZ3qSMsxgw6Mgyysm7Gen8VdjfQJNs/s5GkW70m9miRBkkyFWwB9Wxis7w7FLp8mh6bcKVvc3U7QNy0YaPChl7ZxnBoa/r7zH63VlBzT76abWf5aHJ2emaTqGoQWlvqd0jzNsV57NVUMegJEp6nio7rRTYaOt3eymK4kneKO22ZJCHDMTngA8dDmtCPSNc1TULaC/082EW4s0/9nrbhFAyzEqgzgDvWprGqLf3ln4osvtHkWkpt5UjYB48ElHyykDcDnJB5zStodntZ+0jFSuuu3nZXt1/TzOLlgmgKCeJ4y6B13qRuU9CM9QfWnWtpc31ylvZW8txO+dsUKF2bAzwByeBXVeLfFlnrWm29rZwCILHExEKqiKQOVYbASV6AggYJwKyvBl4LDxvo1w3CpeRhjnsWAP6GlFXlY7pO0bmVb2dzdtKLW3lnMMZkkEaFtiDqxx0A9asXWi6rZWMV7e6ZeW9rNjy55bdkR8jIwxGDkc17TfPpml6XqQmRRHoRj0twTnfHK8LsT+IkrA1mC9tH8e3+sE/2dqKILKZ/9XdMXDQmM9Gwg7ZwKm+l12/r71Yu2vz/AK+486HhrXTBLONF1AxQjdLJ9lfbGNobLHHHykHnsc1qeHvB9zqNre3mp2d/b2UenzXNvciIpHK6LlRuK4I68DnitL4n39z/AMJVaIJ5FWDTYEjCsRtDRjd+eTn1rrbi21GbxF4j1aFZP7En8OslrOp/dOvkrhF7EghsgdOfWm9n8/wuTHVx87fjb/M82k0aG18HC/vNP1mG8mnHkXDW4WzeIjP3zyW4PTjAqmPD2tNYterpF+bVU8xpxbP5YTGdxbGMY5zXX22gaw3wauFXSb4s+qx3CAWz5aLyT+8HHK/7XSt3S55ZPHfg22eRzB/wjwHl7jt+aKTdx74H5Ch7v+ul/wBB9F/XWxw/g7whc+ItYs1urK+XSppGSS8hiIRSAeN5UqDnA/GsmDQ9UvLWe7stNvLi0gLCSeKBnRMDJywGBgc16r4cttRvfEXgu/0xXbSbXS/JmmjP7uOTDiRGPQMSV46nioNPuHk0/wAI3ug6HqertpyuhFjdhI4py53rKvlNt3Ag5JUFT7Zpvf8Ar7xR1X9fceWf2Zf+VayfYbny7xits/kticg4whx8xzxxWnZaALuO8sJIrm01q1VpfInGBKqjLJtIDK4HI65weld/4On/ALN02Y6k8enHWr+T+w4nQSC1m2svnKf7oLKmRx37VyHhO0vNL8fMdTR4ZNOE0t55nVQqnOfqSPrmpv8Al/X3dQOYtrO6vWdbO2muGRS7iKMsVUdScdB71DW34cs9S1HULmPRb8WM3kO5HntEZVHJQY6nvjpxWJTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK2dEt476SKBtLE0QbFxdb3BjBz82Qdq4HqDnFAGNRW9oelWlxqRa7zNaef5EYyR5rE+o54HP5etYTjDsB0BoASiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA1bbXpbLQ7nTbS1t4TdgJcXS7/OkQHOzJbaFzjOFBOBkmqVjfXOm3kd3YymKeM5VgAfwIPBHsar0UkrO6Aknma4neWQIGc5IjjVF/BVAA/AVHRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKuR6pdxaXLp8UipbTMGkCxqGfHIBbG4jPYnFU6KANDT9Xl0u3nW0hhWeZSn2ogmSNSMELztGRxnGeTzWfRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVq6WlpbXVreSamkRjbe8YjfzAQfujA2nIx3HWsqigDorHxBb/ANq2ouLS3itIJ3kjcB90YYk9FbBPQdO1YM7rLcO6Isas2Qq5wPzJNR0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/Z)

위는 index.c 파일에서 사용한 main 함수 외의 함수들입니다. Static이 붙은 함수는 main 함수에서 사용하지 않았습니다.

1. **main 함수**

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADk3LTIzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MwAAkpIAAgAAAAM5MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMjoyMiAxMDoyMzoxNgAyMDIwOjEyOjIyIDEwOjIzOjE2AAAAOQA3AC0AMgAzAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMTItMjJUMTA6MjM6MTYuOTMxPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPjk3LTIzPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAlYCfAMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6sRafez25nhs55IRnMiRMVGOvOMVXrW8PyQjV7Vrm4mR45B5Kqvyk56Fs5UE+gPU0wM+2s7m8ZltLeWcqMkRIWx+VRMrIxVwVZTggjBBrqLiK1j0uzh1BZozc3kpkS3cAIwbbk5BzjoBx35rnr+3e01C4t5H3vFIyFv72D1qRleiiimIKKK1fDYT+2g0kUUwjtriQJNGHUssDsMqeDyAaAMqiu1e01WK1a5ebwkyInmFEksGcgDOAo5J9hzmsLVLDz/Gl9YWiLGrX8kSKq4VB5hHAHQAUbCbSV2Zs1rNbxQyTJtWZd8fIyRnGcdR+NFzazWjqlwmxmQOBkHgjI6dPpWsyxax4pWJDiyhwinsIYx/UA/nWZqN2b/UZ7luPMckD+6Ow/AYFZxk21/XoRGTbsytRWjods1zqYAMQVEeR2lj8xVUKcnb/ABEdh61twW1ld3GiXAjWUTXLRSFrVIRIox1RSV7nmlOoouwp1VB2OTorobGWLUPEUdhJaWq2vnHaqwqrYUHA3D5jnAzkmpYrhP7Jgv73T7UFNQEbEWyqGTacrgDHGf5elJ1Wun9MTqNO1v61/wAjmav6jpR0yQxS3dvJOpG6KMPkZGepUD9av6jYw6Rp11E8avNcXRSFyoJWJOcg9s7h+VQeKf8AkZLn6J/6AKIz55K23/DDjPmkrba/oVLvSr2xt457y3aFJThdxGc9cEdR170+TSiumPfQ3dvPFG6o4jDhlJ6feUelWrn/AJE2x/6+pf5LRa/8ibf/APX1F/JqXPK1/O34k88rJ+dvxMaiirrSTf2IsZsIxD5uRd+UdxbH3d/THtWzdjZuxSq9baW81oLma4gtIWfy0ect8574CgnA4yenNUa2rNodS0cWt0s6rp5abzIFVvkYjcCGYc5xgjPXpUzbSIm2kVTo10t1d28mxHtITM+WyGUY6Edc5BqC2sZbpC0T26gHH725jjP5MwNbMepm/vdVnit38s6e0SKGBKINoBJJGenbPWmaMqXGkvb2n2f7f5+/97ZmcmPaBxiNsc1nzzS18iOeaWv9aFWPw5qb3U0LQGMwIWkduUXC7sblyMkVlV2tvBd211PeanE1zNNDIGuEs512DZgD7qrj/gP41xVOnNybv5Dpzcr3LVpp1zfJK9uqbIQDI0kqxhcnA5YiprfRri4eZUeDMJQMRKHB3sFGCuQeTzVnQL1IYry0Mcry3aosYjtln5U5PyMQDW/p1nciG5VbO6G54WJk09bckiVc4C54AGev4VFSpKLaIqVZRb/rscZdW72l5NbyFS8LlGK9CQccU57OeOyju3jxBKxRHyOSOvHWr1+tq3ie++3ySxwi4kJMKBmPzHjkjH1/SrDa7a3A+xXNlt0tVCxRxkeZEf74Y9WOeexq+eVk0jRylpZepiRRvNMkUY3O7BVGepPSrz6JeRSMkjWiOpwytewgg+hG+ooHt7bWIHjlZ4I5kbzHTacAgk4BNbN7Npdzf3EyNpLLJIzBpBeBjk55xxn6U5TkmrL8AlOSei/A52RDHIyMVJU4JVgw/Ajg/hSwxNPMsaFAzdC7hB+ZIAp1wEFzIImjZN3Bi3bce27nH15p1lFLNfQpbxvJIXBCou4nHPStL6XLbtG5M+lXEcbO0loQoydt7CT+ADZNR3lhLZXCQyFXeSNJF2ZPDDIH15rq9R02/Z/EWyzuG8+SMx7YmO8b8nHHP4VkeIpI4ry1MccqXSW8JMhkG3hB/DtyD+P4Vz06rm1/XRGEKrk7f10/zKz6BcI8kKz273cSb5LVGO9QBkjONpIHYEmqk9jJBY2107KY7nfsAJyNpwc1txajZyTSakklta6jMrBvMeVlRiMMwVYzyRn+Ijmq2sRrF4f0dI5o51HnfPGGAPzj+8Af0pxnO6Uv60ZUZyuk/wCtDEoooroNwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKv2uqi0ETJY2jTQj5JmVtwOSQSN20kZ7jsKoVes9M+2iNY722SaU4SFy25j0AyFwM+5FAEkGtzxKBNDDdFZTMhnUko56kYI69cHIqhLK88zyytud2LMx7k9auWul/aZlgN5BDcM/liGRZC27OMfKhH61UuIGtrqWB2VmjcoSpyCQccUAR0UUUAFaGiXlvY6oJbzzfIaGaJzEoZhviZMgEgHlvWs+igDcTTtG+xm+F7qRt45ViZ/sUX3iCQMednop/KoLrWT/wkWoalZJj7VLM0ZkHzIHJ54PDYPvUkX/Ii3X/YSh/9FS1jUmk1ZiaTVmWba9ktIbmOJUzcR+WzkHcq5yQOcc4qtVu9sfsSWwaQtLPEJWQLjYD90Zzycc9O9GpWQ068+zeb5jqimT5cbWIyV684qU4306kpxvp1IrS7nsbhZ7WQxyLkA4B4PUEHgj2q0+u6i8luxnANs2+ELEirGeOgAxjjp0qlFDJcSrFBG8sjHCoikk/QCpZLC8huEt5bSdJn+7G0ZDN9B1NDUG9dwag3qNhnCXqzzq0mH3MFfYSfYjoavalrTX9nHbKJ9iv5jPczmZ2OMDnAwAO2KqPp17HCkslncLHIQEdomAYnpg45pz6TqMbqj2F0rMcKphYEnrxx7H8qTUG02J8jdxl3f3N95X2uUyeSgjTIAwo7cfzq1q+o22p3D3KWssM77dxM4ZcAY4G0Ht61QSGV43kSN2SPG9gpIXPAye1aWt2djp989lbJOJEK5llmBUgqD90ID39aPdUkkHuqSS/rYgk1i8lshaOYPIHRRbRjB9QQuQffrUr6lbLo0tha2sqebIsjSSTh+VB6AKPWhtLtpbK6n0+8ef7LgyCSDywVJxlTuOeccECntZ2M2gT31vHcRSwypGRJMrq2QeeFGOlS+Tt1/En3NLLr+Jk1Kbqc2otjPJ5AbcIt52g+uOmaiqQ28wtxcGGQQltol2naT6Z6ZrV26mrt1I60tG1b+ynuDslbz4vL3RTeWycg5BwfSs2tHR9OTUbllcswUZMSCTew9QVjfAHHUVM7cr5tianLy+9sXT4k/wBFuYf+JhN9ohMX+k33mKue+3YOeKwa29e0NNKjgkU7BKuVR3d2b8TEgGO4PNVtO0v7dC0nl37bW25tbPzl/E7hg+1RBwUeZEQcIx5lsyLS9Q/s26ebyvN3RPHjdjG4Yz0qlXRL4agj1m6sp73cYImcKEKuxCbgehUDnHXNc7VRlGTvHyKhKMm3EKltZvs13DPt3eVIr7c4zg5xV7SNH/tSG6k3zf6OqnZBB5rvk44GRVu18PLJ9padL2OOJ4kRpYfKJLOAwIOeQD6+lEqkU7MUqkFdMz5NUkOoXV1FFCPtEhcrLCku3JJwNyn19qX+2Ln/AJ5WX/gDD/8AEVDqNulpqdzbxlikMrIpbqQDjmrM+jTQaFb6kxYrM5BTZ9wdmJ98HH0pfu7LzG+TS/UrjUZhcmfZbbyu3H2WPbj/AHduM++M1L/bFz/zysv/AABh/wDiKq2sP2m7hg3bfNkVN2M4ycZq/dWOmWl5NbyX12XhcoxWzXBIOOP3lN8idmvwB8l7NfgUbm7kumUyrCpUYHlQpH/6CBmoadIEEjCJmZM/KWXBI9xk4/On20aS3KRys6qxwSihj+RIH61eiWheiRFV7Vr2O/uo5IVZQkEcZ3AdVUA1an0e3hS8/fXe+zwJQ1vGApJwASJT39M1X1HTkttQgt7dmPmxRNlyOCwB/Lms1KEmrGfNByv/AF0Ldt4g8jTLa0/06LyAw3Wt75QfLE8jYfWqWpagL/yzvvXKZ5urrzuvp8oxWidGsX1SfSoWuRdQq2J3YbHdRkjbjKjg4O49qz7uxjg0fT7pGcyXPmbwSMDa2Bipj7Pmut3+tyY+z5rpa/56lCiiitzcKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtbQHaDWLVWshM8rqY3Ibcgzjcozg468g9Kyasx6lfRW/kRXtwkOCPLWVguD14zimI1dNT7Fqmo37uJfsAcrIf45Cdqn8zmsIksxLHJJyTThNKsLQrI4iYgsgY7SR0JFMqSgooopiCiiigDZi/5EW6/7CUP/oqWqekWYv8AVIYHOI87pW/uoOWP5CtXTNOvNT8GXkOn20tzKuoQuUiUsQPLkGf1FYbfaLKeaEmSCUbopUyVPXBU/l0pO9tBSTasjWs5l1PxJNqNwmLeDdcMvoq/dX89orHnme5uJJ5Tl5HLsfcnNIk0scTxpI6xyY3qGIDY5GR3plTGNmTGNnc1PD1vHdasI5ixHluVjVyplO04TI556V0NvC8L+HxNaR2kn2x/3KlsoDtPO4kg98VxVFROm5O9/wCtTOdJze/9Wa/U29OvxH4uE97MVjM7F2YnAPIUn6Ej6VaLz6X4ehla4jlkj1ISL5UokH3T3BI59K56CeS2nSaEgOhyCVBH5Hg1Ndajc3kccc7qI48lI441jUE9TtUAZ96Tp3attp+A5U7y8v8Ah/8AM2dfEenWRtrUjZfzG646+Xj5B+Zb8qqeKFLeJrhVGSdgA9fkWserl5qt1qA/0sxOxIJcQIrHAxywAJ/OnGm4tfP9P8gjBxa+f6Gzqmn3WjaKbCG0nYybZL26ETbOPuoG6YHc+tU7X/kTb/8A6+ov5NWNVyXVbqazNoxiWBmDMscCJkjoSVAJo9nK1vO4ezkkl53KdXmS4/sNXN/GYPNwLTzzuB/vbPT3qjRWrVzVq4V0uiyfadImhmiVbWIqHzKwRif7wadFzx2Fc1Vu01O5soJIYGj8qUgukkKSAkdOGB9aipFyjZEVIuS0Olun06xsbyXTPs8KEKPsxuSWmBOCCY7g5xknlaxtPvLOXTm06/Xy4/PM6yCYoAcbdvEbmqkuqTzRNG8dqFYYJSziU/gQuRVOojSaVpMmNLS0mddpbwQ+bBo90kgMMrSQvdSkP8mM48pV4688n1rkamtbueylMls+x2QoTgHgjBHNQ1UIcsmyoQ5WzQ0u/wDsyz2zpbtBdBRIbgPtG05H3DnrW5pk+nqzwJdafC0zxBFt0uDuIkDcl1Ppgc1ydOikeGZJYztdGDKcdCOlE6akTOkpJm1NFO/ijUJLfTDqPl3DkxmN3VTuOCQv06Hg1KreJRqD3UmnXUxkXZJFJasY2Tsu3GMfSsKeaS5uJJpm3SSMWZsYyTyajpez0SfYfs77mmlrepraNFpM0ckbLMLVI3yFBHrk4963J7rVp7iSX+zvEce9i2yO7cKuewHlcCuQopyp81r/ANfiEqfM7v8Ar8S3qNvcQ3bPc211bmUllF1ku3qSSBn64qK1VGuoxLKkK7sl3BIGPoCf0qGitErKxpbSx1N7cabcNrBj1W3H250aPdHLxhsnPyf41S8Szubi3t8RFFtoSGEShj8g/ixuI9iaw6sXt7JfzJJMqqUjWMbQeijArGNLlasZRpcsk/66f5G/BcXVxpccl2jH7QhQz/breB5UBxjLJvI4wck5xVXXTbppOl29uygxCXdGLlJimWBGWTjms+PV7uK1jtx5DxRZCCW2jk25OTyyk9TUNzeS3e3zVhXbnHlQJH+e0DP40Km1K/S4o02pXIKKKK3NwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK09LtrG9uLezkiujPM20yRuu1CTwdu0kgdTyO9Zlbeipc200Eyahbw2sh3To1yoyoJBVoycnjPGD1poTHW+jWqx232ozztdXLQKbdgAm04ycg5JznHHFY91B9lvJoN4fypGTcO+DjNdJb3Eaw2/wDYt5DaRC6c3CSTBCy7vlJDEbl28Y5rntQa3fUrhrIYtzIxjGMfLnip/r8hleiiimAVb0zT31S/W1jlihLI7mSYkKqqhYk4BPRT2qpWx4Xikn1zyoUZ5JLW6VFUZLE28gAFACDRLUkAeINMyfaf/wCNU20057XxObCV7MzW9wYsXCu0Ujq23HAyQT64reaPU5LUwD4fWsTMmwTpa3e9CRjcMyEZHXkY9qzrzyE+IN/Pc3UdvHDqUkhMiudwEpOBtU8/XFa0re0V+5FS/I7FP+yp9Q1bUEU2tsbcvJLglY0AbB28HgenpToNDUatYwXN3Abe72skyb8SKWxgfLkHqOQKsveWUF9rMi3kcy3sMnlGNH6s4IU5UYOPw96jfVLVU0Ahy5suZ1CnK/vN2OevFbxjSXK35X+9/pYwcqjvb+tP8zP1a0hs9RmitriKZBIwCxh/kweh3Ac/TNT6BoNx4hvpbW1nt4DFA87yXDFVVEGTyAT09qh1dYDqM01rdx3KTSM42K6lQTkA7lHP0zWn4O1Sz0q+1GS/m8pZtNuIIztLbnZcKOAep79K4ql0nbc6IapX8i1qPw+v9MSN59S0to3miieRZnCxCRSyOxZQApUE9z045rNvPDjWunwahDqVleWElx9me5gEoWF8BsMrordDnIB6HvxXoNt428Mx3sT3dx58IuLFyv2djjy7dkZsEc7XIPvjjNYmva3a6l4Ni0q78WHVtQk1UXDzzJP5UMWxl4LJuwMgkBe/AOM1gpVL2f8AWxa1im+3+f8AwDN8SaTcvf8Ah+xWLRo/tdrEttPp0ckazKzbVeXeAxbPU4zVXV/BV5pNnfTm/sLttOmSG8itpHZoC2QCdygEZGPlJwevetvV9Q0Zr7wrc22uWlwNJhtoLhEhnDHZJlmXdGAVA98+1VbjX9MksfHEaXOW1W7jksx5bfvVE7MT04+Ug84oTnbTz/NfoPT8vy1M3W7aLQtHstOWCNry8gW6up3QMyhuUjQn7uBycckn04qrqNu0Og2DKLCSJ3cLPAjiRiMZDlgM4zxWh4jjfWdMsNdtFaSNbZLa8KjPkSJ8o3Y6Bhgiqt61k3huztYtTt5JrZ5HZVSUbt2MAEoBnjviu6Fmp3/rVfoYTbvD+un+ZDdeG7i1FwGurWSa3iE0kCOxYIcc/dx3BxnPtTrrSLSHw/Z3aX0HnSmQtkSfPjbhV+TAI56469auS6vZNrer3CzZiuLExRNsb5m2qMdOOQetUJJrW78N2kBu0huLR5WMciP+8DYI2kAjtjnFayjTXNy22/8Abv8AIyi6j5eb+tP8zIre03wpJq0cCWWq6c99cRNLFYB5DK20MduQhQMQpIBYHp61g16v4d8YaPZyeH5D4jl0zT7GxMV1pcUM3724O4F22rsZTkNkknjp6cnQ6upxMHg+d/Dtprd5qen2Fjdu8cb3DSFtynG3aiMfU5AI45IyM2bHwFeX0lrGNV0uFr64kgshJK5F1sbaXQqhAXPQtjPYVFq+r2d14B8P6bBPuurOW5aeLaw2B2BU5Iwcgdq7DwlCNYtfCVzqGn6lDDo0kjLdxQqbR41k37pJSw8oqVOQQcgDGM01ZvX+kD0WhxMXhG5+y3d3f31lp9nbXLWn2i5aQrLKOqoqIzHHXOMVjXlv9kvZrcTRXAicp5sLbkfB6qeMg12F9quk6/oM+ly6lHp01vqs93BLcRytFNHJ2/dqxDDA6jGD1rL0TRNL1HWdRtZby4ltbeCWSG7hj2KdoyGcNyqn065IFZxbau+36XY3+v66HO1dsdMkvYppvNit7eADzJpiQoJ6DgEkn0AqlWtp11bPot3pt1OLYyyJLHKysVyuQQ20E9D6Gt4JNu5nUbS0LdnpcD6Lqitc2beU8JW7IbaoOScfLu9BjGc1Ql0Zre8lgur21gEaK4lZmKyBuRtAUseD6VMJrO00XULKO7Wd5XhZGWNgGxktjI7Z74zWs2tWTrMLW/8Asly1nbxR3WxxsK/fXKgsPqBziunlpyXS6/yfn6HNzVIt2vZ/8D/gmNF4dvJtQe0ieFmEH2hZN5COmM5BI/niki0Ge6mWPTpor7/no1urkQjIG5sqCF568jrWxca1Ytqc0q3skynSWthNIjbnkxjn6+v61iaHrMuhail5BDFLIhBXzBnac9R2zjIyQcZ9ayqRpxdo67/maU5VJK7LJ8Ja0NRNoLGZsOV84Rt5e3ft35x93PfHSqOp6VeaTceTfQtHknY5UhZACRuUnqOOtbj+OLh/EY1g6fafaBIWVyp3gbv++d235d23OOevNZWva1Jr2pvezwRRSuTuaMYLjPG7sSBgZAGcc1za6HTpdlSwtPt9/FbfaILYSNgzXD7I0Hqx9P1rYPhG4k/s97C/sr63v7sWaXEBkCRynHysHRWHDA9DxTfBOpafpHjGwvdYX/RYmJL+Xv8ALbaQr7e+1sH8K62XxTYLpmhQ6h4nm1q8ttcjvLmZ0mZYogB9wuoJAx0wOScDvVpLS/l+f+ROupzN14JubbUX0xdU0241RJlhNhDJIZCzMFABKBD1BI3ZAznGDUzeAbn7O08Gs6TPDHepYyvHJLiOVjjnMY+X/aGR6Z5pLTWSnxYGraXEb7zNUaSCPOwzBnOBz0JB710HiG0tdF8A6mBFqVpPqWqpLDFqduLeUqoYnCBiSF3D5+Mk4wMVC+FSf9ar/glNe80v63/4ByS+FNQjfWzK9vCNDOLlpScM2/aqr8pySRxnAx1qTVbWHUPDNrr1vDHbyiY2l5HEoRC4XKuqjgZXqBgZHA5ra8X+KbDVtAt4tKlZr7U5I7jVEVGXEiRqiryMNk7m4z2rK1RG0XwbbaPdKyX11c/bJoWGGhQLtQMOxOScemKNUrP+u/6grN3/AK8jma6V/KsPh7aSxQW32m9upleSWBHcxqoHylgSoyeq45rmq66/W91z4e2N4yz39xZ3MyTTYMjRRbQQGPUL168Cm9n/AF1F9pf10ORooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorb0DzLq5htzDYtbq2JRLGhkdTknGfnJx02+1AGJRXS28MMKaaLW0inivbiRJDLEHYqG2hcnlSBzxg1hahbra6lc26crFKyD6A4oAr0UUUAFFFFAGnHaQt4UuLwp/pCXsUSvk8KUkJGOnVR+VZoBZgFBJPQCtiL/AJEW6/7CUP8A6KlrOsJ3tdQgniTzHjcMqf3j6UAV6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqZb26Sze0S5mW2kYM8IkIRiOhK9CahooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArSsJdMtpbe5me7MsR3tEka7WYHIw+7IHTse9ZtSQwTXMnl28TyvjO1FLHH0FAGtaaxFFcS3UlxeIZJWle0i4ikJOQC24cevymsiaZ7ieSaU5eRizH3JzT4LO6ukd7a2mmWPl2jjLBfrjpUNABRRRQAUUUUAbMX/Ii3X/YSh/9FS1nWE0tvqEE1vH5kqOCqYJ3H04rRi/5EW6/7CUP/oqWs6wlmg1CCW1j8yZHBRME7j6YFAFeiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK67w3YXFotpNHbSu16WLyLGSscYBwM9iW5/AVyNWLC9k069S6hVWdM4DgkcjH9aAOjtoW0/T9JnmEkXlTOxiwVZ5t+0Aj2A59uO9YOsxpFrl9HHwizuAAOnJp9prEtpbxxGCCdYZPMhMykmJvUYI9uDkcVRkkeWV5JDud2LMT3Joe4DaKKKACiiigDZi/5EW6/7CUP/oqWs6weePUIHtF3zq4Ma4zk1oxf8iLdf9hKH/0VLWdYNcLqEBsxmcOPLHqe1AFeiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKu6Zpdxq1w0VsUXau5nkJCj24HU1Srq/Dxtd2nwWt5EJGZpbhGVwzNtIAB24wBk9e5oAwrHSpb+CaWKaBBEjPteT5mCjJwoyfxOB71RrZ0FQl9fKsiyAWUwDqDhvl6jIB/SsajqHQKKKKACiiigDZi/wCRFuv+wlD/AOipazrD7R/aEH2L/j43jy+n3u3XitGL/kRbr/sJQ/8AoqWs6wFwdQgFkcXG8eWeOvbrQBXooooAKvaNp39r6za2Hm+T9okCeZt3bffGRmqNbfg3/kctM/67iqjq0jKvJwpSlHdJla6tdKgm8uO+vHKybZC1mi4A6kfvTk+3H1q9e+HLW21nTtOhv5pZL0xHc9sECLJjB4c5PPTj61U1C6vNV1B7SO3hkfzm2JbWcaOxye6KCa6bVbG7g8beH5prWaOLFnH5jxkLvGMrn19qILm5b9WjkqVJwaTlrZvp8uhyB0/GuHTvM6XPkeZt/wBrbnH9Ktavpum6Zc3VpHfXU11byGPDWiojEHB+bzCcfhV650jUrfxcbq40+6itzqAImeFlQ5k45IxzVzxN/bEOuX082mMljHdlxcLpyISofg+bszzxySc981K2V/62L9s3UilLS3l/kcm8E0cMcskTpHKCY3ZSA+Dg4PfBqOu41/xpZ6n4bjs4YWWWRG8wqED535/eN5YD5+98u3nrk1w9HU7TsJPBcun+DItV1DR9YmurgykLEvlx2qKBh5AY2JBJz1Xgda5+bQdYt7Jry40q+itUALTvbOqLnGMsRjnI/MVt65/yTTwt/wBdrz/0NK7O9tbyDxPLqt+JE0aPw8InmcHym3QgCLPTcXIO3r0rplTTu10t/wCkt/p+JyKrKNr63v8AhK1jydbO6aza8W2mNsjbGnEZ2K3oW6Z9qhrZt7LU5fB93eQagBp0Nwqz2YnYHccYcx9Mds+3tWNXN1OsKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACnxSyQSCSGRo3HRkYgj8aZWvoOkR6lMTdu8cGdilMAs5BIAyPQEn/69AFC31C8s0K2l3PArHJEUpUE/gahkkeaRpJXZ3Y5ZmOST6k1e06LT7iWC3uI7ppppAhaN1VUyQBwQS35iqt3B9lvJrcsH8qRk3Dvg4zQBDRRRQAUUUUAbMX/Ii3X/AGEof/RUtZ1gs76hAtm22cuBGc4wa0Yv+RFuv+wlD/6KlrOsI5ptQgjtX8uZnARs4wfXNAFeiiigAooqa0tZr66jtrVPMlkOFXOM00m3ZCbSV2Q0V0GjaVAniKzie7sr5WmMbxx7mHQ9dygEe4yKpT6K8SRypd2ssMk/kNIjkLG/XDEgcY7jI4rT2UuW/wDXT/Mz9rHmt/XX/IzKK0JtJZLZLi3ure6haUQl4t42MRkAhlB555GelSX+hPpsk0V1fWYuIRkwKzFiPY7ce+CQcdqn2ckr2K9pG9jLoo61u6v4WfRRNHe6pp4vYER5LJWk8wbtvAJTYSAwJAY9/Skotq5Tkk7GFWhrOsXGuXy3d2kaSLDHCBECBhFCjqTzgVt6x4b0yx8I6TfwataNcXKzu/E/7/awAVAY8DHfdjk9SKgl8GTWltYzahrGl2Q1CBZ7dZpJMsrDPO1CF9MtgehODinCSuvT+vzM1Ug3zev/AATKk1eU6OumwQw28BYPMYgd07DoXJJ6c4AwOTxVCuov5hYeCNDNtbWYe8W5E8j2kTu2HwPmZSRgHqCKNIstIvvBmtStp7/b7GGOQXT3BPLSBcKgAAGM9d31FZSdrs17I5eivQdA8LaZP/ZFhfWHnPqVq1zcXzTMhtQ7FIggBCk7gOGByWp2keErCGbTNO1PTvtM1807XNy0zp9kiVzGpXBC53YPzA5JAxzUuaTsRzq1zzyiux8MQG08dDQLuC0ubdLmWOQT2cTs20MPvMpYdAcA1zun6X/aU1wovLO08mNpM3U3lh8fwr6t7VV01dGlihRRRTEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXSaJqlibnT7eeF4BbBz5v2hVRmIOWIK9TwOvpXN0UAdDpMcFtazahaSQfa2Yx20M9zGDCO7ndjJ7DisCVWSV1chmBIJDBgT9RwfrTaKACiiigAooooA2Yv+RFuv+wlD/wCipazrCKafUIIraTypXcBHyRtPrkVoxf8AIi3X/YSh/wDRUtZ1hBJc6hBDDJ5cjuAr5xtPrQBXooooAKv6Jfx6ZrMF1MrNGhIcJ1wQRx+dUKKqMnCSkuhMoqScX1N3TP7O0rW7W6OqRTxpKc+XFINq4PJyo56cDNS6Nqmn2mnwRXx37dRWdo9hPybCM+nXtWDPbz2snl3MMkL4B2yKVOD0ODUdaxrSg9Ft/wAD/IydKM1q9/8Ag/5nUX+rQyaOYJ9YfUbg3yTZKybUQBum4DHXp78ZrI8QXcV94gvLm2fzIpJMo2CMjHvzWdRUzqymrMqFKMHdCrgsNxIGeSBnFdneXuknQb+DVNZt9dmVFTTJI7aVLmMgnBd3Rfk2n7hZwOMYxmuLoqFKya7lSgpNPsdNe3Wn6l4I0i2XUYre80wXAkt5o5My73DLsZVK+3zFai8W6paamNFFlN5v2XSobeX5SNki5yvI569RxXPVLb2txduyWsEk7KhdljQsQo5JOOw9apzck1/WglBRd/X8TqNT069vPAPh6azs7ieKBboyvFEzLGPMByxA46Hr6Uzw5NpsHhjWra81i1tZ9RhSOOOSOZihWQNlisZGCBxgn8K5WispLmuX2PQbLxNpUtjoBvb9bf8AsZ83FusLl7vyiTCUYDGOSMMVxkmlg8WWGqadpR1LUBYPY3bT3cIhd2ulDmRFRhkdSRhioyc9hXntFTyLf5k8iO28Ix3+r/EJdbSxuDbS3U0jyrGzJGWDHBbGO4rG8N6TZaxfX0WoPcRJDbSTLLCBtRlGcuT/AA9vqRWFUy3l0lm9olzMttIwZ4RIQjMO5XoTVWSVl2NLkNFFFMQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFdN4aiFjPazSD9/elliB/hjAOW/EjH0Brma1NL1+9024ib7RcSwRggQecwXoR06d89KOgE3h+7uBeQW41P7LAsoJiJbEuTyMAYOcY+YgVm6gAupXIWEwAStiIjBTnp+FWYL+zWSOe8tJrm5VtzObnAkOcgsCpP5EdKp3VzJeXktzNjzJXLtjpknNAEVFFFABRRRQBsxf8iLdf9hKH/0VLWdYW73WoQQRv5byOFD/AN33rRi/5EW6/wCwlD/6KlrOsbc3d/BbiTyzI4Xfj7vvQBXooooAKfEY1mUzq7xg/MqNtJHsSDj8qZUkBhWZTco8kf8AEsbhGP4kHH5U1uJ7HRXelx3fjC1sZ7q7limjjJkml3yKCm7GcdvpVG4sdP8A7KXULVLrykuvIkSSVcuNuQwIX5e/GD9anl8RWza3a6nFYSpLAFUq1yGVlVdo/gGD78/Ss7+0f+JG+neV965E/mbuny4xjH610zlT963d2+9W/U5oRqaX7L9b/oX/ABV9iXUhHbW8sUghh5MoK7fLXAChRz05z+FVPDtjbap4k0+wvmkW3uZ1idomCsNxxkEgjqfSk1TUoNT2TG1eK6CIjuJsowVccLtyDwP4qq2V01jf293GMvBKsijPdTn+lRKUHW5ntf8AC5cYyVHl62/Gx3MXw08qEzXdxK6tazyeWm1DFIrKI1ZjnIbcD0FVL/wnoyya5p+nz3Z1DRYPOeaWRDFc7cCQBAoKYJ4+ZulO1D4k3F5FraQ2P2c6pJC8bCbcbbZtyB8vzZ2j0qrf+NorldVntdK+z6jq8SxXc5uN0eON/lptBXcQCcs2KqTpWsu349Px3M4qve8v62/4I/XtF8NeHpLO3nGqXM11ZR3JeOeNVhLpkDBQ7/myeq4GOtbui6NpWgazeacj3Uuprokss0pkXydzxbigTbkYBHzFjnniuJ8R67/b97bXH2f7P5FpFbbd+7dsXG7oOvpW3F46tRNNfT6M0mpz2BsZbgXeEI2bN4TZw2AufmI46DNHNC87edvSz/4AnCo4xT+frp/wT0CC2W+u/DlzGAZtMs1SUDr5UtqxUn6MhH/Aq4G38HafN4k8O6e01yItU05bqZgy7lcq5wvy8D5R1zUul/EqTTdUa5Gm+ZE+mx2Lw+fjJQYEmdv14x361Bpnjq1sptKu7rRmur/TLU2sUou9iFPmwSmwncAxGd2PatalSlOTfn/n+ejM6dOtBWS6W/r0Zq2ngbw+9nbvcPqRka3sppNk0YUm4YpgZQ42nnPORx71werWQ03Wr2xVi4trh4gx77WIz+ldPF8QPKhRP7Mzsgsoc/aOv2d9+fu/xdPb3rmNVvv7T1i8vvL8r7TO82zdnbuYnGe/Wsazpu3J5/8AAOmkqib5/IltdOtbi3WSXWbG1c5zFMk5ZfrtjI/Wqc8aw3DxxzRzqpwJYwwVvcbgD+YFXLXX9YsbdYLLVb63hXO2OG5dFGeeADiqc9xNdXDz3Usk0znLySMWZj7k9a5+pud14VjuLHwaNSsLv7AX1DN5eJ96OCNQ233yzAbf4iQDVHxVa6HbfEK7+3pcxadMiz+XYhN6s6BsYbgcms3SfEUVpoc2japZSXthJOtwEiuTCyuOOu1gQRwRj3BFaOk6vFq3jOfXddj0/wCxgEzQ3JDAJt2qsaE5ZgAAMA46nFRZ89/62REU1/Xmci23edmSueM9cUlOkKtK5jXapYlV9B6U2qWxo9wooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKsWVjc6hOYbOLzJApYjIGAPc1XrrfDtuIRZLbTW7vcM0lx+/QMoCnam0nPuePT0oA5qysbjULpbezjMkrAkLkD9TxVcjBIPUV1vh+0+yyWawzWzzz3ANxtuYyURTwoG7JyeePQVy1xGYriRGKkqxBKsGH5jg0AR0UUUAFFFFAGzF/yIt1/wBhKH/0VLWbY263d/Dbu/lrI4Uv6VpRf8iLdf8AYSh/9FS1m2MCXV/DBLJ5aSOFZ/7o9aAIKKKKACrFpYXN8J/sse/7PE00nzAbUHU8nnr0HNV66PwPH9p1yeyzhryymgU+5XP9KcVd2Mq1R06bn2Mmy0e/1G3eaytmmRJFjO0jO5ugxnJqw3hnVluIIRbK7XEhijMc8bqXHVSysQD7EivTYUsoJLaTS4Y4Ibq8dFWNAo3RxSrnA7kqDXNeBsf2bB5v/QYi8vP97y2z+lVyq9v66Hm/XqjjKaW3Tr18+jRykvh/UoWhBhjk86byEaGeORfM/ukqxCnnocUl9oOo6dbme5hTylkMTvFMkoR/7rbSdp9jiuttfs1jbWosHlukv9aQSySRhPIMbghcBjyc5znp2rPk/wBR4z3fc85ev97z+P61NtL/ANbL/M2jiajfS11+Lt30MO58P6haWsVxOtv5UxxEUu4n8znHAViTz1x0ouPD+p2l3c21xalJrWHz5V3qdqcc5zg9R0rTv/8AkX/C3/bb/wBHV1msILuHXb0fftYbizlJPUeYjp+hYfhVOK1+f4f8EmWKqRcU7atr7nbucHeeGtVsYZpLi3TFvt84RzxyNED0LKrEge5FJL4d1CCNXuBaw7oxIqyXsKsVIyDtL5/Suqu/+R68Q5+5/Zkm/Pp5K4/XFZvi6TT1ubVZ7W5e4/s+HbIlyqoPk4ypQk/99flUtWV/66/5Dp4mrOUY2Wqv+C8/MxBoGpHUYrEW4M80YljAkUqyYzu3Z24wDzms9htYg4yDjg5rt7X7R/wgTKcf2l9mkMA53/Y967/1zj/ZziptHtPC8nhOWa8iga5XyVkYzSbFYh8b28vcmechMj5V5HJokrf1/X/DnTQqyqNp9NP+D6HA0UrY3Hb0zxXqdj4T0jXNA0y4aCJLm+sI7e1MK7M3CGUuxC8MSEAyc9fWtaVJ1djSrVjS+L+v63PK6K9V14afpOoaa2m6Pp0qajq08M4ezjcFI5BGI0BGE4ycrgk85qjqNpp/hzw54gkstPtJp7bXTa2stzAsxiTYePmBDcDGDkd+vNDp2V2/60/zIVa+lv61/wAjzgDJxW6/hS4h8UyaFd6hp9pNGMtcXE5jhHyhvvEe+OnWtmG/ih8Fya6NM017+61JLZy1lGY0jSIEhUxtUseSVA74xW8fLn+OtzY3Npaz21yQJIri2SXpBkYLAlefTFWqS0T/AK0uTKrLVron+Fjyx12Oy5BwcZByDSV1nhx4LTwf4h1A2VpcXVvJbLA9zAsoi3M4JAYEHjseOnpXR6vYafpdpq+t22nWZujp9jJFG1sjwwvNkOwjIK/w8cYGaj2T5ea/b8U3+hcq1p8tv60/zPP9V0e40j7H9peNvtlql1H5ZJwj5wDkDniqFeu3cFldwvq95Hp8E1t4ftGgF1A0kELSMwLeWFbIHYbSBkcYrGtG0W/8XaRbadbafqhv7b7PqkcFsYo1YZBlj3ovlkL82VAHB9audC0+VPr+rX6ERr3jdrb/ACT/AFPO6K67xlBDpOu2Ol6XYwPZ2sUb28vlKzX+7DeYzDlgx4C5wMYGKwNblnn1id7vTotMmON9rDAYVj4H8B6ev41zyVnY6IvmVyhUwtZjZm72fuQ/l7iw+9jOAOp4qGtjVo2i+w6RDy8SgyAd5XwT+Q2iolKzSQpSs0jNe1mjtYrl0xFMSEbcPmx1461DXTKYH8WWumkJJbW6fZQHUFWbactj13Hr9KtpoljDakiNTnybWUsM4lLrvIJ6HBPSsfbJWv1MnXUfiRx1FdJdrDdW2tI1pBCLGRfIMcSoVG/btJHLZHrnmm69cR22sSWNraWsUJRFb/R0JyyDJDYyOvbHT61UavM7Jf1p/mUql3a39af5mLa2Ul3HcPGVAt4jK+4nkZA49+akTSb2SyN0kOYtpf767ioOCwXOSB64xXRTPHFPrtjBbQxw29qUjKxgNwVGSw5bPXnNJbMF1jTLgjNsml5kP8O0IwYH/gXH41DrStdf1pcz9tLf+tkYkuh3MVm1yzxFFgjnIBOdrnAHTrWbXZaiwfQrllRYwdNtSEXOF/eHgZJP61xtXSm5J37mtKTkm3/WiL1tpbz2f2qa4htYC/lq8xb527gBQTx64xTjol0t3dW7+Wr20JnY7sh0GDlSOuQeKntLiC+02DTLlLnzIpWeFraISMwbqpUkenXP4VfW+E8mpXzxmC1WzNlFvOW3YAUHHc7SfQVMpzTf9ehDnNP+u+n4GFa2Et3b3U0bIFto/McMTkjOOPzqtWvpAnit55bW/togyYnjlt3lAXP8X7tlxnFSSSiSNkbU9HAYYO2wKn8CIcir5mpP/g/5F8zu/wDg/wCRiVJb2811MsVtE8sjdFRSx/Ic02RQkjKrrIAcB1zhvcZAP51e0q3s55T9slUHICRFnUsf+AxtkdscGrk7K5cnZXJ7rw1fW1u0oV5dvJVLacED1y0YH61kV2c9lJaaWEjjt4IGB+1xSWVyImwcqd/l7+OvLfpXJXaxpdP5MkLoTkGHftHsN4Dce9ZUpuV7mdKbluOs7G4v5mjtVVmVC7bnVAFHUkkgVI2lzrLEjPbEyyCNdlzHJgn1CkkD3qbRLuK1uplnWUi4t3gHkoGbLcDgkZ/OprS30+HVoFFxeeck6jy5LVUw24cE+YSPyqnJqVglNpszp7OWDUJLPHmTJIYsRgncwOOPWpLzS7uxTfcRqF3lCySK4Vh1UlScH2Nb0F15nxBIm8pdtxKkZWNU+Y7guSByc45PNU9ORINB1U6lFKYvNjQIHCMZATkAkHkDOeKj2krL5fiJ1JJ/d+Jl31hLp8scczIxkiWUbCTwwyPxqWTRr+KF5HhA2JveMSKZEX1KA7gOR1FaHiKVYtZspUQlEtoGCMc8AZwTU39oWEOsXmrpeeb56OUtvLbfucYwxI24GexPSj2k+VNISqTcU7dDEnsZLeytbp2UpdBigBORtODmq1a+p/8AIuaL/uTf+jDWSoDOAWCgnBY5wPfitYtta93+ZrCTau/P8y+uiXjwvKn2d0jAZylzG5UE4yQGJ70t/otzp0MskzxMIrj7O2wk5bbuz06Yq5EY0jTSNGJu7i5kUzzD5VfbyETdjgc8nGcelWdd1aHVNImaMohbUNyxFVV9vl4yQOvPc5rLnnzLt/w3/BMlOfOl0MPTtPn1S/jtLUDzJDwWzge5x2qvIhileNuqsVPHp9a34YtTNsLHTY9PgMvyube8iMk3TgkyE9ugwOvFQ6l9tuLU/b49Okmj+9cLcx+ccdjtf5jxjkE1XtPe6WKVS8uhiVcttLubtEaBrc7zhVa6jVic4+6WB/SqdbuhW0Onyxavq+6K3RwYE2/NM3qB/dXrnp0FXOXLG6KqScY3W5n/ANk3IW+L7Eaxx5ylsnltuBjIPPvTLfT5rmLzI3twM4xJdRxn8mYGujmtBaaTrJZZJHmhjlF15oZJwZAdygKMfTJrO0S3tkUXcaG+u4wXWEjZDDjo0rtgY9hxx1rJVW4t/wBbGftW4t+f6IpyaJeQfbROEjeyVWlQuCcMQBjGR3Hes+uxnmSCw1TUYlHm3SIJFLR3UaybwTyCwwR03Ae2a49mLuWOMscnAAH5DpVUpyne5dKbkm3/AFohKKKK2NQooooAKKKKACiiigAqa1uprK5We2fZKucNgHGRjv8AWoa0tG0htWuHQy+TGg5kK7vmPQYyOuD+RoApWtzNZ3SXFs+yWM5VsA4P41ETkknqa0IbC2/stby8uZog8rRKkUAfOADnJYetUGxuO0kjPBIxQAlFFFABRRRQBsxf8iLdf9hKH/0VLWbYwxXF/DDcSeVE7gM+QNo9ea0ov+RFuv8AsJQ/+ipazbGKGa/hiupPLhdwHfIG0euTQBBRRRQAVZ0/ULrS76O8sJfKnjztfaDjIweDx0NVqtWOmXepfafsUXmfZYGuJfnA2xr1PJ5xnoOaav0JkotWlsSx65qUVrb28V26RWspmhCgAo56nPWpn8S6q9xbzi4RHt5DLGI4I0UOerFVUAn3INFv4Y1q5Moi06ffE8SPG42PmT7mFOCc4zwOnPSn3fhTWLKS3Wa1RvtM/wBnjeG4jlQy5xsLIxCtz0JFVyz7f1p/wPwMnGg3ql+HUr2mu6jYrKttcBVmlWZw0asN6nIYZBwc+lOvNf1G/j8u5mTyzKZWSOBI1d/7zBVAY/XNWLzwjrVgsv2q1jSSEgPALmJphlgo/dBi+CSMHGDkHoa1j4Om0zwhrl3rNpGt3ayQJCyXKuYiWw6sEYgHBHDc01CX3CfsU+ayu/QwrnxDqF3ax28zW3lRHMYSzhTy+c/KVUEc9cdaD4h1Qi+BujjUDm5Gxf3n6cfhir2vaWLDRNIzpEdrJMJM3sWoLcreEEDopITbnHXv7VFqHg3XdKtrie+sljW1wZ1FxGzxgnAYorFgCehxg0pRkrhGNGy0Wvp3/wAyveeJNVv4ZY7i4XE+POMcKRtLjgBmVQWA9CaJfEWoTxqtwbWbZGI1aSyhZgoGANxTP61vaP4LuY7DVrrXLFVWHSnuYVNwvmRucFGZFbcuRnG4YNY0nhPWodNN7JZhYhALkp5yeaIiceYYt28LnvjFN05pf157/cxRVB6JL8PLb8Ct/buojVItQFxi5hQRxsI1CqoXbtC424x2xVBmLuWOMscnAAH5DpWwvhLWmuLeFbME3NubqOQTx+WYh1cybtoAxzkjHHrWORgkHt6HNRJNbmsFDeFvl+Ala9n4q1qwh0+K0vjGmmyPLar5any2b7x5HPU9c1kUUKTWxbipbo2rPxfrdgrC3vFIac3A823jl2Snq6b1Ow+64qm+s6hLpsthLcs9tNcfapFcAl5cY3FiM5wfWrmg6Zbz217qupoz2OnopaJSVM0jHCJkdAepI7Cp5/Dr3ulWV/pFu5aeKeeeIONkQjfHy7ucYI4JJp3la39f1oZSlTptN6Xf47lHS/EOp6PDJDYTosUjrIY5YUlUOvRwHBCsPUYNW4fGmuQavNqqXMDX8xDPcyWcLvkLt4LIdvHHGM1o6t4a0jQ4Dc3jXs0ZljhWOOVFbcYw7tkqeBkADH40y/8ADenaNZ30979quhBdpDF5UqxbkZN4Jyjc0+aS67HOsRQnZpXv5bmJNrt/Nb3cBeGOG8MZnjgto4lYpnbwqgDqemM96sL4t1pbgym7WQtbJasktvG8bxL91WRlKtj1IzWpdeGdP0yDU7i7N1cRW3kNAscixFllGfmJVuR7VDHoGnL4osrGRrqWz1FI5Ld1kWN0V/72VIJGCOMU/eva4/rFGSckvw8k/wDL+kU5fGGuz6oNQnvvMuPI+zEtDGUeLn5GTbtYc9CD29BTW8V6uTJsnhi8y2NqRBaRRgREklVCqNuSTkjBPetHSfDmnaxqGq28TXNuLVNsG+VW3SFto3HYOCccDH1pbXw1Yf2et1d/amxpr3bxpIqEushXaCVOBgehpc0mr30/4f8A4IOvRi7W1VunzRkw6vLdLp9pq15OllYE+S1vCjSxAnOFYlT16ZPHYU3xFrDa9rk+oMhjEm0KrNuICgAZPc8c1s2fhrTbua2uUe6+w3FnNOIy6iRHiHzLu24Iz3x36VnadBompapDZ+VeWYmyiyyXSSAOfu5AjHGeD9alpt67mkcRCz5Vot/IyLeY29zHMEVzGwYK+cHHrirMOqTxaudRKpJPvMnzgkBj369u1X77QDY2VrA0VxJq9wzsbeMZEcakgZXGSTgnr0FUpNPu9Kmim1Cw3w5Vtrk+W+5dwBZSOSpBwDmpcU9zSLjUV0VIp5YLlLiJysqMHVuuCDnNWJNVvZYZY5J2KSzee4AAzJ/ez2rXvvC8t5qWnDw7C80WrRmS1hZwCjDO+PccZ2kHnuMUy88DeIbC0Nzc2C+V8mDHcRSFgxCqQFYkgkgZHGeKl8t7S3NOVPUzLrWL68haK4mBV2DPtjVTIR0LEAFvxzUF1dzXty09y++VgAWwBnAwOnsK0dR8MarpdrJc3UUDRQyCKVre7in8pznCuI2YqeD1x0rS8T2Onx+FvDmpWOnxWU1/HOZ1hkkZWKOFBG9mI496ScFbl/rS/wCgKKWyMZ9c1B7eSFpwVlQRyHyl3SKOm5sZPTqTVUXdyLU2wuJRbk5MQc7CfXHSuk1qw07/AIV9ourWunxWl3cXE0MzRSSEOEAwcOzYPPbFUJfB+uQac17LZARrALhk86MyrETgSGLdvC+5XFJOHoJRikrL+thk2vedpz2v2bG+1it93mdNjZzjHf0rHrZg8JazcafFerbRRwzqzwie6iieZVGSUR2DMPcA1JZ6fa2Xhl9Z1KD7Q08pt7OBmZVJAy0jFSDgcADPU1UVGN+UIxUdF1KOn6n/AGbHI9vCPtjcJcM2fKXHO1fU+tWl8Q4BiNhAbWUlriDJxI5xlgeqnjjHTmqsWi301rHcLHGscgJj8ydEZwOu1WIJ/AVLZ2YbQ725exS42hdswulVrfnGTHnJz05FW8PzNuS8+plL2b13+f8AX9bDNO1KGyS8ilt3lhuo/LIWUKyjOeu0+npUby6WY2Edndq+PlLXakA+48sZp1jo15qW0WYgkdyQsZuY1c4/2SwP6UWuiX94heCFdok8oM8qIGf+6pYjcfYZpqhJu6T19Sr0027/AIlCrmlalJpV+tzEiuQCpVsjIIwcEcg+9OtdGvrsOYoQoSQRMZZFjG/+7liMn261f0HRDdahcLfRR7bWORnglnEZLKOARkEDPU9PeqVGU/da3Cc4cruQWeq2Wm3QurGzuBcIDsMt0GUEjHICAn6ZrKYlmJPUnPAxW5pmjpquvSxXAitLS2ia4uTayeYqRqMnadzZJ4HU8n8KnXRI9d01rzRLJobiS/8As8dqsuUCeWWBy5zu4OTkD0ArNU1F6bicoU1zvS5gW032a7hn27vLdX25xnBzir91faZd3k1zJY3YeZy7BbxcAk54/d1tP4WsbLQ11HUGusx2wkngR1BZ2kKKASp2j5STwfaj/hGdMS3uL9jdyWf2BLyGNZFV8ltpRm2kHB7gChwTd3/X9WMPrNJu+vb+vvOUlMZlYwqyJn5VdtxA9zgZ/KpLm9urzb9ruZp9n3fNkLbfpmulh8M6e6C9Y3RspNNkvEiEiiQMhAKl9uCPfaPp6517p2nW1vp2owpdSWN4HVoWlVZEdeCN+3BGSDnb0quTVL+uxpHEU5Oy/p9vwKl7q0tzeQXMG+2khhSJWSQ5+UYyCMYpP7c1b/oKXv8A4EP/AI10B8N6QfG0mjZvI7aBHaWVplZmwm7I+QAfrRp/g+2kuo7e+knDf2hNav5bAZVI94IyDyf5VPs422/q5l9ZoKOq6X+Rz19qkl/ZWkMwZpLcPuld9xkLNuyao109hoGm6sun3FmbuGGW9FpcxSSK7KSMhlYKB09R1qjMuhQ6mbZ7XUEjjn8uSX7WjHaDgkDyhz3601FR0X9f1c1jWjdxinoRW2sJp1v/AMSu2MN2ww11JJvYDjIUYAX9Tz1qK/vbW+USrZfZ7o/6xopMRsfXZjg/Q49q1NR8P2+iWt1Pfs8r/aRFZIrbVmUAMXbjJXaVHBHJ61BrGnW39l2Wt6ZD5VrcsYpbcsWEMq9VBJyVI5GTnrzUckU7lUnTn70P+HM/SLyOw1i1upgzRwyBmCDkj2qtO4kuJHXOGYkZ+tbOq6dbTaHa65pkPkQySG3ubcMWWGUDPyliTtYc8k4ORmqM2jX9vo9vqs1uVsrlykUu5TuYZyMZyOh6iq5Unc25Vfm7lGnPI8m3e7NtG1cnOB6U2imMuWl/9lsL228vd9qRV3bsbcMD079KWw1AWkNxbzQ+dbXIAkQNtbjlSG5wQfYiqVFTyp38yeVO5p/2pBb2Fxa6dayRfaQFlkmmEh2g5wMKoH61mUUUKKWwKKWwUUUVRQUUUUAFFFFABRRRQAV1Ph+5sZZ9OtIpLiOSMvJIvkqVkcqed27PA4HH865aigDoNLj1BjbxQ2wudLMpbfPbIVC5wxLc7OB/erFvBCt9OLQ5gEjCM/7OeP0qGigAooooAKKKKANmL/kRbr/sJQ/+ipazbFIJL6FLt9kDOA7A4wK0ov8AkRbr/sJQ/wDoqWs2xW3a/hF4dsBceYfQUAQUUUUAFdP8P7m0h8VCDU5ooLO9tpraaSZwiqGQ8knpyBXMUVdOfJJSInHni4ns8fjPRm/srUZ7u3jluNSkW4CEFoY0WZI3I5IGJF5x2rmLF7bQdEstOvdSspriXX4bkfZ7pJUSJODIzKSFznoTnA6V5/RWvt5N3f8AW3+X4mCw8UrJ6f8AD/5nU32q20fxXl1SWZZrWPVvOMqHeGjEmcjHUYHati/hhttA8W+Zq2mzy6nfRPbJDeRu0q+aTvIB+XhuhwRzkCvPqKzjUtHl9fxt/kayp3d79vwO28QWe3wP4ehF5p0k2nm4NzHFqMEjJvkBXAVyW49M471p3uq6fJ4l8cTfbrZ47my227ecpExBTAU5+Y8dvSvNqKt1ne68/wAVYn2Ka1f9XueoXlxZzaz4p1watp5tdR0pktU+1J5sjFE+Ty87lI24wQPbNJqmvCfUbjWtFh8P+Vc6cY3nur1lnVfK2tEYfN5bK4GEIPynPevMKKHWvHlt/Wv+ZKoJdf60/wAj0myu7GDwWPB8mrwrd3tu90br7UhggfcGW3L5wAwX5ucbiOtebkYJB7ehzSUVnOfO7/15GtOHJfz1OksvFX2Sxht/tGvr5ahcQaz5cY/3V8o4Htk1z9xL51zLLmQ73LZkfexye7YGT71HRUdbmh02hk3/AIO1rSof+PhWjvI0HWRUyHH4A5/Ctjw7r9lYeFLCKaeITG9NvIhcbkhYhmJHUL71wtvcTWlwk9rNJBMhykkbFWU+xHSkllknmeWZ2kkdizu5yWJ6knuaadnc569CNeCjLo7nc+I7m21+O6s7O+tBJb6jvUy3Cxq8RjVdwYkA4K9BzUmpeJbNbW8mtntblV1GECKVEcyxpGFLBWB4JH3gO9ef0UXZgsFBJRb0X9P8ju9REd3aa+kOqWdw99LBPAZLuNCVyTtOWABUcY9hUEEttJ4w0fyLy1NvpUUMM07zrGjFSSxXcRuGT2ri6KalZlLCWi1zf1ZL8kdba3A0p9fkNzbea+yW38u4R9+JgwwVJ54zjrW9qd7pt3LcJYX1pi40mQIGuEUB3l3bCSQAeehrzSiknpb+uop4NSlz31/4b/L8TvdHvbbT3sNPW/t1uLayui8yzqEWWQAqokztJGByDjPeseG3u7vVLd/E2rxy2sAaVi2pRztgclVAcnLYA/8A1VzVFPm1uVHDcrbT38teu33nWalrcd7cWviWLyhdqzQ3Fp57I2QPkcbWDYwQDgjlfeofFni+TxN5SPGxEaph3ZgQdvzDaGK43ZOcbveuZqSCea1nSa2leGVDlJI2Ksp9QR0qdzopQVKPLH+l2PRdDuoNF17whp+o3Edu9mk09y0zhFh81SVVieAcY/Or9vqmhSaDDb6lf25t20mzhnjWYbsC7LOuAc5C8kDnHNeVTTS3EzzXEjyyudzu7FmY+pJ60ys5U+aXM/63/wAzVO39eaZ6fr1zbQ+EvFUP23QES4uoRYWum/Zw7RLLkMTHy3BHDEkYJwO+BrQj1D4d+HDa3Vm72CXIuYWuo1lQtKCv7ssGbI9Aa4+ilGnZb9b/AIWC93c7K5MV/wDCrS4La6tPPsbu4kngkuo45ApCkEIzAtn/AGQa6K61HTl8Uav4oGqWcmn3ekGKKBbhDM0jRLGIjF98YIzkjGBnNeV0UOknfzv+O4J2t5f53O28Q20XiePSb/TtS06OGDTIreZLm8jheF4lORsYhmB7FQc5rOuD/aPw7szASW0q5kSdB2WTBV/pkFa5qp7W9urGRpLK5mtnZSjNDIUJU9QSO3tVqNk1/W9xLS39eRuWESXNpbw6xcWb2KRMUmW5UTW/U7Qudzc9ip68Ypuj2/8AxIdUQ3FqjXUaCFZLqJGbD5OQWyOPWueorp9qr3t3/HQxdJ237fhr/wAOdLpEIsdEuLm1uLQ6jcloFD3caGCP+JvmYcnoMduaW0uY5NBtLaKKwlubOdyy3VyYsZIIZSHUN0x1PauZopqtbZdLfr+YnRvq31v+h1V5N/bVk0Ju7KK6j1B5JcTCONgwA3qWPIGD3zzQuo2k/ijWLlJ0EMtpKkbudu87QBjPc4rlaKHXb6f1awlQS0v/AFe50ngyQSXeoaZuCSalYyW8JJxmThlH44x+NXPC+rx6N4e1kTusV3AyvbRuQG8whkOFPcA81yCsUYMpKsDkEHkGpbq7ub64ae9uJbiZsbpJnLsccDk81gm07r0Kq0Y1Ycktrp/19x6B4h1LT9UGoafZX1t+/tIHgLTKqFlkd2TcTgHDdzVf+17Wy0m4s4rq0kmtNJjhyxSRJJTJuZVByr4B964Gihu/9epyxwMVFRvorP8AL/I78XdvqE016l9ZxpeaK9vHbPPHH9nkGB5YBICgnJH1NYd/EjaVpWjW9zay3MBlmnYXCCNC+0hfMJCk4HODXOUU+bW/9b3NIYbkas9tvut+R3d1NbxfEC9vmvLNra4t5hHIl1GwJ8rGDgnHPAzjNaNlrGnTw6BcvfW6TvK7XQklVSriDy9zZPGdo/OvM6KL6WM5YGMkrvZW/Bo7TQ5rbRotOtLu8tfPl1OO5k8udXWKNQVyzqSoJJ6Z6dapalDquqakYb3WoXspLk7TJqsUiRqScNt3nGB7e1cxRSv/AF93+RqsPabmnq/L8jq9cvbHXdLdbWSOE6QwitkkkCme3wBkZPLArnHo3tUN/wD8S/4f6fYTnE95dtfCM9Uj27FJH+1yR7CubR2jdXjYqynKspwQfWpbi8uby6Nzd3Es87YzLK5ZjjpyeaHr8zalTVJcq26G/OTp3w5htZ+JtRvftMcZ6iJF27se5Jx64qhPosUfhW11mK9EjS3DW8lv5ZBiYDI+bPzcYPA71n3d5dX85nvrma5lIAMk0hdsDoMmpb3VLzUIoIrmUGK3XbFFHGsaJnkkKoAye56nvS7mvZFSiiigAooooAKKKKACiiigAooooAKKKKACiiigArc8PaXb3Uol1BC8MjGKJNxG99pJPHOAB+ZFYdb+ka7DFdWKX1vbrDaqyrKBJuXIPOA2CSfajoA2w0ktpMNytnHdzXMjKizTeWoA4wPmUsxOeM9ulYswxO48sxfMfkOfl56c+lbUV7Z3ljZRzzpYmznZ9gV2DIxB+XryCMcn8ay9QuRe6lc3KrtWaVnAPbJzR1ArUUUUAFFFFAGzF/yIt1/2Eof/AEVLWbY/Z/t8P23i33jzOv3e/TmtKL/kRbr/ALCUP/oqWs2xNuL+E3ozb7x5g56d+lAEFFFFABWz4Y0GPxBqM9vPeGzjgtZLl5RF5hwgyRjI/nWNW34W1q30S8vpbtJXW4sJ7ZBEASGdcAnJHFTO/K7bgt18jpZvhcZJ4INK1gXUsk8Mb+bbeUqJLG0itncSSFXJGO/U1W074f2mtywPouuNPZtdyWk08tn5bRssZdWChzuVgp5yCPStOL4m2VlcLcWdrdNKsto219qArHbtFIMgnBO7jj6+lVrLxvY2OsW13PrvibVoopnbyL3btRDG6jgytubLLz8vGeOawbq6/gONrK/bX8f+AU7/AMAW1vo5vrLW/OHk21wFntfJURTPsBZt7YIYHIwRjnPaqOu+FrHStXl0a11O5udVjuEg8mWx8pJC3dX8xiRyOqjIORWnN4y0i58PnTLiC9w+nWVnIUVBzDMXcgknqp4OOvUVCfFWmaboP2LTpr/VJobqKewbUbdEFiEbcQhDuTuwAQNo71UfaX17/hoD8u36EGp+CoLSDV10/VTe3mi7PtsJtvLTBO1jG24ltrYByq+oqbxPpfh+z8JaDPYz3QuJ7aR1JskX7QfNIzI3mkrjoAN3TtTvEPjCHWYdQlj13xHm8G5dMlkzbxMSCyl/MO5B82BsX+Hpis7UdX0rVfCelWkzXlvf6ZFJEqpCskUwZ9wJbeCnU/wtSXO0nLv+j/Uel9P62/4JNdr/AGH4Z0yzt5DDNq8ZnvJoxl/KLbVj7fLgEkZ5P0q9/wAKxvv7Y+zm8X7H9uNn9oER38IX8zZ024GPvdayryaHWvCli4nhS+0tWgkjlkVDLDksrLkjcRyMDJ6V1L/FG0a7mlFvdbX0nyFUqvy3eCPM+993Bxnr7V301B3cv66r8rerOWr7VWVP+n/WvojDj8CRSXEGn/2ow1e5svtkNsbb92VwWCNJuyHKjONpHbNVj4Y0208PaVqurazLAupB/LhgsvNZNrlWJy6jaOOevPTjNaUHjLSU1Gz12WC7OrWmni1FusaeS8gQoJC+7IG0527eo61g6xrVvqHhvQtPhSVZdOilSVnACsXk3Dbz6euKqXsknbX/ACu/0tcmPtW1f5/d+Vzp/CHhu003xN4dvLrVGE99cGW0hW2yrxq2AzsWBUtg4AVu2SKpaPHO2k+K207VpbV1idru2NmjpNHvwAJC2VPzHov40ujeKtEiufD99q8d8LrRU8kR20aMk6BiyHcWBUjccjBzgciq+ia3oVlY60l7PqKy6tE0JEVmjrEC+4HJlG7gdMD60S5bWi+kvxSt9/Xp5EWndt/3enm7/ciLTPCdjdaPpd9qGsPanU7prWKGO080hgQNxJdfl+YZ78jg9p7TwemmyR3Ouaj9lK6obKBIoPN8x0b5mYll2oDgZwTz0qqviCxhsNAtYluHGlX8txI7Rqu9GdCMDcfmwhyOnua0rzxZomsXDHU47+KO31Wa+tfIjRjJHI24xvlhtOVX5hu78VcPZJp+n/tt/wBSpe1afz/9ut+hP4o8O2k/iDXNY1jUmsbQ6q1pF5Vv5zu+Mk43KAoHOc59qzU8A3Euqano9veLJrFkymK02ALdRHB3q5bqAwJUjp361p3Pj+G8OpwRX+saTDPqDXlvPY4L4YYKOnmKMcAghuuaoWni+10a91HVNMl1C91edkjt7rUgrmOIAbmY7iSxxtx2XuaziqWl9rfov1/ASdZLTf8Ar9DJvvDcw1a4s9AF1rS2pCTT29o20PzkDBbK8cE4zg8U2y0q2ivZLDxGLvSriRQYJZYyqRn/AKaIRu2npuB49DUPiC50y81qa60WGW3tp8SGCRAvlOfvKuCcrnp044xxRodxpVncvdavBNdtEMwWyqPLkft5jZyFHoAc+3fB7/1+B1RvZG74T8OQRfEbT9K8SxvhpkKRpEJY7gE5GW3D5CO43emOta3gOx8Ov4s1VZUOoWEdg5f7dZpH5RMyKSo3uBgE4bIP0rmtN8WXMXjax1/VS919mnVzEp2hUB+6g6ADsKsWus6LpNxrn9ny39xFqWny28ZmtkjaN2kVhnEjZGF69c9qV9Nez/LQpbv5frc6HUvAitYaPp8hhsWs49Ql1C88nLGOGbG4gYLnGMAnv1FY1t4BGpXGkSaXqfmabqSzO1zPb+W9uIeZNyBmBwMEYbnPat3UPidpmptpwu7O6Ktpk1jqRVUB3SBMvHzzymcHFZdn400nSV0jTbK3u7nTLWO5ju5ZUWKab7QNrFVDMBtAGMtzjtRr/XfX8Ng3f9bf5mjH4dg1zwV4e0rRNQMsd1qtwfPuYPKMYWNS25QzdApIwTnjp2g8J+E9NfxDo2pWN2NY0uTUHs50u7MR4cRllyhZgykcgn05FRab430jw5Y6Lb6MuoXJsbuaa4knRYDKkqbDtCu20gdOTyAfYFn41srHW9OvbjXfEusRW12ZWhvtu1E2MBhTK258kc/Lxmh/FdeX6E/Zt6/qbF/4OsL+GeKzhhtItW1azks7gQqxhimjdiq9PlDAjbkfdFczoXgH+2rq7h/tLyfs+pR2GfI3btxYb/vDGNvT361o2fxHtbXwjo9g1tO99pmpR3AfChJIUZ2C5zkH5yOn41Y0rxx4a0S5nktU1W4+06tHqDtJBGm1FLHYAJDkjd1yM+gxyWs9P6+H9Ljne2nZ/wDt3/AMzUfh9bW3h+XU7DWnuytqbtIms/L3RrKI2yd5wckkcHIHauIru38b6a/hltOEF15zaXJZg7F272n8wH72cY9s57Vi67ptnp3h3SQ9m9lqz7zcxvISzJxtZlP3M84GBwKWq/rzf6WK0vb+tl+tzngMnFeqTeHLUvq+iyWNnFb21lsspfJUXE1wkYkd/M+8Rzg5+XlQMV5XXc33jexvJJtUKXZ1SXTjYrAyIIISww8itnJyCTjaOSeaipdx0/rsQ78y/rqjhqK6KTTbO28CC5vrN7fUZrlTbSvIQZ4sckJ/dHHzdyetc7WnWxXS5rHSbWDTLW6vL2SM3SsYxFb71XBxhm3DB+gOKl01ZD4b1Rra9ePaqG4gNupWQbsDD5yPXoKXS9R07TlDmS8lDR4nsmjUxTNg4y27pnB+6SKbpt7plvpN7bXE10sl4qqfLt1ZY9rZ4JcZ/Suq0E9Oz6+Xr1/4dHK+e2uuq6efp0/4YZoukWmrSGJ7yeCRUaSRvs6tHGg7lt4P6UW2jW72cNzeXzQR3M5hg2Q7y2OrN8wwOR6n2qW01DTIdAlsRLdwTXEmZ5Ut1feg+6o+cYHc06z10RaVHY/b9QshBIzRy2g/1it2Zd64IPQ5PU04qlpft+N159vxCTqXdu/9dO/4EZ8PraRyPq90bVVuTbL5UXmFmHVuSMKOOevtV/QtOj0zXb+K7nkW6s4JWRoogwHy/fBLA554GPxFUzqtheWptdQe9KR3TTRTbVkkdTwVbLDngc5P0oTX4n1vUb+aJ1W6t5IkRMHblcLnp6U06UWmv60/z2JaqyTT/rX/AC3LOgW8Goa1fajfSS6hb6datdH7UMNMygBVYZPGSO54HvVfR7u71bxXHc3GozRX8z4jn8lZcMeMYJAAA4GM49KZ4W1G3stSmt9Qfy7O/t3tZn6+WG6N+BAP0zSad9m0HxCkmoz+YbWQMv2IpOkn/Ag4A/X3xWNJr2sW9v8Ag6/hY3qJ+yklv/wCO201L5tSuby88lbU75GWLcXy2OBkDOfw+lXdO0Wzi8TafBdSvPbXKpNF+5A8wH+Fhu46HoTVM6hZQ22qQ27Tyi8VNjPEqbSH3HIDHtUw12CPVNHukikYWEEccinA3EE5x+da0/Zx5ebfS/3v/gGU/aNSt52+5frcqwah/Y2rLc6PcSsF4cSxBA4zyhUMwKkev5VZ8Xabb6brn+ggLa3UKXUKA52K4zt/A5qtDYWuo6ssFjeCKFzuea9KQCMZ5/jO7A9OT6VL4o1SHVdcaSzBFpBGlvb5GCY0GAfx6/jXI+h0xKGn2R1C8W3WeCAtnD3EmxM+mffpWr4m8K3HhmdY7q5gkZ9pWMOPMwVzuKgnAzkZzzise0vLmwuBcWU8lvMoIEkTFWGRg4I9jVzVtf1DWSBdzEQghlgRj5asFC7gCTyQP1ND8hrcowCFp0Fy7xwk/O8aB2A9QpIz+YrttX8M6PeeMrXSNNu57WSaCLCmzXYP3AbORJkknGeOpPJxzwtddceJdMfxNpmvwG8S5tzbie2aFCmI1CsVffk5C9Co69a6KXI42l3X3a3Fqm/T/IjtfAV/NAsk8qR+daJcQBFLbmd1RY2zjafnBJ5wKe3gu3kmuotP1RrubT7qK3vEa38sDe+zdG247gG45C+taVx8RLf7Fepa28/mtqMc9r5mMLAhQhDg8H92vABFULnxPpVrHq02iR3Zu9VnjlYXEaqtsFfzCFKsS/zY5wvFbf7Ommvn+a/yfoDT1X9f11+Za1yC5N5rlnomk6V/Zmmq8DK0cH2iNUwDLuJ80nPfkc4rM1XwxpmiNbx6hrUonubZbiNYrLcqhlyA53jHORwG6Z46Vcu/FOjvPrWo2kN4t5rFq0MlqyL5UTsVLMJN2SMgnG0detY3ijWLfW9Rtri1SREis4YGEgAJZFwTwTxWVTk5b7y0/wDbr/p94+um3/Df8E0Y/BTXOjTXtnJfv5Np9q8ybTmit5AACypKW5IycZUA4rS/4VtbG5a3XXGMwnFtj7FwZGi8xRnf025yexHQ02bxfoc15f6k0WofbLzTfsSwbE8q3Pl7eG3ZZcgdhjJ61ZXx/pS6s10be82HUY7rGxc7Ft/KI+913fp+VbcuHu/66v8ATUSvZf10/wAzXt/D+m3M3hmVNPtcwwIt7GIVxKJIGZXcY5O5G5PqK4m38Ieff+H7b7dt/tqLzN3k58n5iMY3fN09q3tH+IWn6frCTTW909qdLitXVUXd5secMPm6cnvnnpVLSPFejQSaBdaml8bnRkaMRQRoUlG4kNuLAgjceMHOByKqfsZyvp8V/lt+O/zE72su346DYPAVo9hHcXGtPGzW0Vy8a2e7ajvsAB3jJ3Y9OOc03SbF5NY1HwZfyiaJTMts7dIZo8kOvoDggjvn2qT/AITPT/sQh8m63Cwt7bOxcbo5/MJ+90x096jh1S0i13WPFnmovmvN9gt2kUzGSTIBZASVCgkknjpjNc1ZUuX3PP8A4Bel36r/AIJzem2ljdC4/tDUhY+XEWhzA0nmv2T5fu/U1RrovDGm2dxa6ld6xZO9lFauEujIUWKbGVA7MxOBt984rna5+olsFFFFABRRRQAUUUUAFFFdN4aiFjPazSD9/elliB/hjAOW/EjH0BoA5mitzw1dXQ1BEN5cRWdurTyokrBdq8ngHuf51kXU7XV3NO/DSuXP4nNAEVFFFABRRRQBsxf8iLdf9hKH/wBFS1m2LQJfwteLugDgyDHUVpRf8iLdf9hKH/0VLWbYyQxX0Ml2nmQq4LqBnIoAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtTS9fvdNuIm+0XEsEYIEHnMF6EdOnfPSsurFlY3OoTmGzi8yQKWIyBgD3NAE0WpvHZ3sbhpJ7vaHnZ8kKDkj3zxzmqNXLXSby9iElvEpRm2KWkVN7ei5I3H2GaqMrIxVwVZTggjBBoASiiigAooooA2Yv+RFuv8AsJQ/+ipazbGWKC/hluY/NiRwXTAO4emDWlF/yIt1/wBhKH/0VLWbYzx21/DNPH5kaOGZMZ3D05oAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACut8O24hFkttNbu9wzSXH79AygKdqbSc+549PSuSqa1uprK5We2fZKucNgHGRjv8AWgDoLbybOx0lNSjMzC5doDBICEG4A5IyH+bsMfXmsTVklj1i7W4KtKJn3lRgE57U611e9s4ViglXYj70Dxq+xvVdwO0/Sqbu0js7sWZjksTkk+tHUBKKKKACiiigDZi/5EW6/wCwlD/6KlrNsbhLW/hnkj8xY3DFPWtKL/kRbr/sJQ/+ipazbG5Fnfw3DJ5gicMUzjOKAIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArS0bSG1a4dDL5MaDmQru+Y9BjI64P5Gs2up8P3NjLPp1pFJcRyRl5JF8lSsjlTzu3Z4HA4/nR0AyrTSYpoLZ7m78hrtykCiLcCQcZY5GBnjjNZ00T288kMow8bFWHuDiui0vNwlmHsZprWzmZorxj5aIudx8wYI4IzjcKwtQuFutSubhBhZZWcfQnND3BFeiiigAq3pmnvql+trHLFCWR3MkxIVVVCxJwCeintVStbw2CdYcAZJs7rA/wC3eSgC7HaWo0OXTRremEy3KT+ZmfjarLjHlf7fXPassJNoniBo3VZZrK4KMEJwzK2DjjOOPStFr3w01sUg8PajHclMJK2qBlV8cMV8kZGecZH1qLV53tfHmoTxJ5jx6jKyp/ePmHigDEooooAKkgha4nSJCgZzgGSRUX8WYgD6k1HUttbvd3CwxNGrt0Msqxr+LMQB+JprcDY8Qab5evRWlvpkWlF4UIie/WVGyM7/ADSdoBHvir3i/RYNDjgtbe0shtiiMlyt5vndymW+QSYC5PB2dhzzSeOo1k1C1uYLm0niFpBCTBdxykOqYIIVieo64xVfxxcwXfiQS2s8c8f2WBd8bhhkRqCMj0NaSslJf3vw1N7JXb7L9Dna3tY0220bT7Sxa387VLmNZ5ZGZv3AblY1UHBJHJJB68YrBrrvEv2a98R6VrF2WOmahHC0jKSdgXCyJx3GP1rO17LzOf8AyMnUPCuraXazXF1DAY7eQRz+RdxTGFjkAOqMSnII5A54qe58Ea/Zxs15aQwERGUJLeQq8iBdxZFL5cY/ug9COoNdtrdzZW/h3xbFFe+H47acxJpttp3kCSSNZVO5inzE4xwxJzuOAK5j4i6jb33jCOe1uIruGO0t0DRSB14QZXI465qVrYq39fd/mUG8EeIEsZrt7JBHBbi5mT7TF5kUZGQzR7ty5HqM1FD4S1mfT4r0W0UcM6NJCJ7qKJ5VUZLIjsGYe4Br0GaSw1C/8Z69a3zYuNHKPZvbyRvbuyoNshZQucrgbSc8+lc34ktovE40vUdO1PTkgh0yKCaO5vI4ngeJSGXyyQzZ7FQc5oen9ev+SEtX/Xl/mcRWjb+Htau7dJ7TSL+eFxlZI7Z2Vh7EDBrOrf8AD8GgXt5BBqkNzCAC81w1/HGmBzwpjySegG7JqhD73wTrNnY2cq6ffzTTxmSWJLNyIBnABb+8QMkYGOK52uh1bWtF1fVLi+uNM1ASzNnC6ggVRjAAHk9AAB1rnqko3NBttGvrm0sb221Ka6uZxGXtpkVUBIAIUoxY9SeRVy00G0n1nUfDbbXv4pJBaXqFv3jJn5GXJGGAPPUHuaPC0Gp2dxaXuna5ZWME0g+0K+oJEVVW6SRlgWGMnAByDVvSDYP8SLrVdLHk6RYyyXW/BAWMZwAD0ycAD3pfat6/1/W5Cvd2ONZSrFWGCDgg9qSpJ5fPuZZcY8xy2PTJzUdNXtqW7X0CiiimIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK3IbHZoFvdxaSL1neTzJCJSEVcY+6wA70AYdFdBpmnWrQWJubUTm8d2d2dlEESnBIweueec9AMVj31t9i1C4tic+TIyZPfBxQBXooooAKltrmezuFntJ5IJkztkicqy5GDgjnoaiooA6lNY1U+DZb46tqP2ldQSEP9sk4QxuSMbsdQKwLW7uF1WO7XdcXPm7/AJssZGznnuSTWnH/AMk8n/7Csf8A6Kesqwlmg1CCW1j8yZHBRME7j6YFAFeiiigAooqW1tbi9uFt7OCS4mf7scSFmbvwBQBFRXT+PL6STxDJp8dy7WdmkccduHPlxMqAMAvQHORxXMUbgFTre3SWT2aXMy2rtveASEIzepXoTx1qCigAooooA0LzX9Z1GzW11DVr66t1IKwz3Lugx0wpOOKz6KKACiiigAooooAKnF7dLZNZrczC1Zt7QCQ7C3rt6Z96gooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArV0n7JaXdtfSaiqGI73hVH8zIz8o428/XvWVRQB0ceq2l5YQw3E62YiuGkkTYzGSMtuCqR6HscDoc8ViX9z9t1G4ucY86VnAPbJzVeigAooooAKKKKAN2P/knk/8A2FY//RT1lWEk8WoQPaJvmVwUXGcmtWP/AJJ5P/2FY/8A0U9ZVg1wuoQGzGZw48sep7UAV6KKKACiiigDpfG5jvNcOqWtxbz29zFFtMc6M+RGoO5AdynI7gVzVPmhkgk8uZdrYDYPoRkfoRTKACiiigAorTPh/UV0VNVkjhitJNxiaW5jRpdpwdiMwZsH0BrMpXTAKKK0BoWpN4fbXBbE6cs3kGfevD4zjGc/jjFDaW4GfRRTxDKYGmEbmJWCtIFO0E5IBPqcH8jTAZRWhpeh3+sJcSWMcZitlDTSzTxwxxgnAy7sFyT0GcmorTTLu+vzZ2kYlmXdna67QB1YtnbtHrnHvSur2AqUU50McjI20lSQdrAj8CODSxxSShzFGzhF3PtXO0ep9BzTAZRQBk4FWdQ0+50u/lsr+LyriIgOm4NjjPUEjoadna4FaiiikAUUUUAFFW9L0u81rUorDTYvOuZs7ELqucAk8sQOgNWJvDmrQGzBsnka+iM1ukJErSIOpwpJHQ9aTaW40m9jMoqdrK7SKWR7aZY4X2SsYyBG391j2PsagphZoKKKuXuk3unW9rPewGKO8j82BtwO9fXg8de9Fws2U6KKKBBRRTjG4iWQowRiQrEcEjqM/iPzoAbRRV6y0e81C3luLdIxDCQryzTJEoJ6DLkAnjoKTaWrGk27Io0Vcg0m+udNudQggL2tqVE0gYfKT04zk/hSxaReTaVNqMSRvbQY80iZNyZOBlM7hk+1F0Plk+hSooopkhRRRQAUU6ON5n2RIztgnaoycAZP6U2gAoopURpHVI1LMxwqqMkn0oASilZSrFWBDA4II6UnXpQAUVe1DR7zSyq3yRRyNj90J0Z1yM/MgJK8HuBS32i3+maklhfwrb3DhSFeVAMN0JbOAPqaV0Vyy7FCireo6Zd6TdC3v41jlKBwFkVwVIyCCpIqvDDJcTJDBG8ssjBURFJZieAAB1NCaeqE007MZRT5oZLeZ4Z42iljYo6OpDKwOCCD0NMpiCitm+8Ja1p1rc3F5aLHFaiJpmE8bbRJ9zgMSc+341jUrpjs0FFFFMQUUUUAFFFaNjoV/qFjJeW6wLbxyCNpZ7mKFQxGQPnYZOKAM6irlppGo6g8q6fY3F4Yf9Z9miMoX6lcjHB5p+maLeau+yw+ztIWCLHJdRRMxPYK7An8KN9gKFFXl0e+aG7kSEMLJiLhVkUsmDgnbnJGe4GPeqNABRRRQAUUUUAFdBYTyzaTaWOm6r9luvMkLRb3j3k42jIGO3c965+tGyvrOzaGf7C73MPKsZ/3ZbsSu3PHHG7tQBd0CeeKS/tHwq/ZZi42DcSFPVup+mcVg1p6dqsNpNcT3VvLcTXCOjMswQYYc8bTzWdIUMjGJWVM/KrNuIHucDP5UD6DaKKKBBRRRQBux/8AJPJ/+wrH/wCinrKsPtH9oQfYv+PjePL6fe7deK1Y/wDknk//AGFY/wD0U9ZVgLg6hALI4uN48s8de3WgCvRRRQAUUUUAWL77R9qP2z/W7E9Pu7Rt6e2Kr1YvhcC6xeHMuxPTptG3p7YqvQAUqMFdWZQ4ByVbOD7cc0lFAHoPjG9tJPDHhWJdGso/tFiSrI82YP3pyEzJg5/2tx5qfWtA0F9X8T6Rp+kLZnSbM3UF0s8ruSu0srBmK4O7AwARjqa4y+1641O30q2ukiSLTIvJiaNSCV3bstknJ57YrovGPjZL7WNZTQ4bVbfUNkcl9HHIs08agfKdzYUZGDhQTgZzXNySWi/vfmrDXT5f8EXxPF4f8OyabbQaBDdNdabDcTyzXMwZXdP4MMAORnkN1xwKoSWOnXHww/tRNOhgvodSS1M8ckhMieUWJYMxXOfQCsjW9cudeuLea8SJGt7aO2QRAgFUGATknmr6eLQnhs6J/YWmG1aQTMS1xvMoXbvz5vXHbG32rTlkl53/AF/yCOlr9v0/zOqtPD3h+51LRtE/shRNqOii7lvTcS70lMTMCq7tuMrkgg9e2KzrbUbWL4QkyaNYz7dWEZEjzjc3kn94dsg+btxhfasa38aajbazp+pxw2pm0+yFlErI21kClct82c4Y9CB7VW07xHLY6LPpM9jZ39lNMJ/LuQ42SAY3KyMp6cYJI4qXCTv/AF1b/KwJ2a/rpb8zpfD1/aw/CrXjJo9lOYri2V/MeYedlmwW2yDBHbbtHrmsm0Zbb4eand26+XNeXyWr7M/JEFL7eecE4+uKyrbXLm18P32jxxxG3vpI5JGYHepQkjBzjHPcGptG1W3tbO903UlkaxvVG5ogGeKReUdQSAfQjIyD1rRR1k+9vyX+TEtLf13NHQLXTLrRAlvp9tqWtG4O62u55It0WOPK2uoZs9sk+gNXPDNzDa6V4pjl0eDMdsWaOdpQwHmqPLbDjgfQHI69qw7DXotN8kR6Tp929rKZILi4jkWTrkbgkgBxjoc46dKS08TXtvf6hdTxwXp1JWW6juFO2QE7v4SpHIzwRXYqkV9zW3dWX/B/4NhW/NfmaVpBpVt4X/tq80uK4kutQ8iODzZVSCMLubbhsk84G4n8a6bXdEs59U8Q6tNbWt3Mt5FbQQ3t6LeJcxqxYnemTjgDd6nnFcVZ+JpLO3lthptjNaNcC5jt5lkZYJAMZU78njsxIOOaln8YXl5eahNf2lndQ6g6yTWsiuIw6jAZdrBlOOOG5zVqpT5bf1sv+CH9fn/wDoF0Dw5Bea/cCNL60tLKK6gjhu9wjdmGYy6E5APy55OO+eaz/D0OiaydTuL3RY4Y7HTnn8q3uJQHcMMHLMxGQcdSO9ZA8STRx6jFa2VnbQ6hAkDxRIwCKpBBXLE5OOSSc81V0zWLjSob6K3SNlvrc28m8E4UkHIwRzx71HtIc2i0s+nX3rfoH+a/T/gjdQvLW88o2umQWDKCHEEkjK/pw7MQR9apVp+H5Y7bXLa6lvksRbuJfNaIyHg9AoByfrge4qPXNQTVdfvr+GLyo7idpFQ9QCe/vXM9xkWm6ldaRqMV9p8vk3MJJjfaGwSMdCCOhrX0vxDfT3UVndRvfo9r9ghiiZYnVGYEAMFPf1B61z1XNM1OXSrh7i2jjMxjZEkcEmLIwWXBxnBPXNJq6KjJp7nb+KU365af2xAIdGSdXu3t5QxeRx95gDuAwuASASASOtcvr1qIYo5IdKtraB3byrq0meWOZewyzNhhjOODzyBT38XXcsEUU9nZTKuwSmSNj9oCIVXf83YH+HHPPWqd7rUl3psdhDaW9laJKZvKg3nc5GNxLsx6cdcVjCEo2R0VKkJXfczlIVgSoYA5IPQ102p6dYGbw7Jb2Udut/GrTxxu5UkybeNzEjj3rmo2CSqzIsiqQSjZw3scEH8jWzd+Jnu47Jf7MsYTY7RbtGZcoA27HMhBGfXmtZXurGEWrSv2/U2L7StJnXXI7PT1tv7LuY0jkEzs0imQowbJI+mAPxp2oaRpMuo69p9npy239mr5sUyyyMzAMAytliMHdxgAjA61hJ4iuTNqPmJCF1OVZJyFPy4ff8vPr65q/wCJPFAvNR1RNLit0gvJRvuY1cSToDwDuOAOnQDOBmslGaaX9dP+CdDlTd2vy6a/8As32hadDr/iS2jt8RWNoZLdd7fI3yc5zz1PXNRavewHwTooGmWoMgnVWDS5jIYcr8/U9ecj2qnN4vu54rwGzslmvoRDc3Co2+QAAA8tgHjsAD3HSqQ1p20WPTbi0triOEuYJJA4eLd1wVYA88/MDQoysr9LE88Nbdb/AKCDTLQwCQ63YBtu7yyk+4HHT/VYz+OPet23vbeP4bMzaXaSY1FUIZpfmPln5zhxz9MD2rkaujVJhobaVtj8hrgXBbB3btu3Gc4xj2rSUW1b0/MzpzUXfyf5GlYWtnd+D9WnksoxdWRh8u4V33He5ByN23oMdBT9D/5E7xJ/uW//AKMqtZeIRZaVNYLpVjLFcBfPaQzbpNpyCcSADGewFQabrT6bb3lv9lt7m3vAolim34+U5GCrAjn3pNN3+X6FRlFOL/rqb+laJp8eh6XdXdraXBvpn897q/WAwxK235BvXJ6nJ3dMYrmNStobTVLm3tp1uIYpWWOVSCHUHg5HHSrcGumOzW0ubC0vLeOQyQxz+Z+5J6hSrg4PoSelZ08vn3EkuxI/MYtsjXCrk9AOwoSfNdkylHlsjdsrbT7HwvFql7Yrfy3F4YAkkjqqIqgkjYR8xz3OParviLw7YaTpN89ujNJFqSxRyOxyI2i37SOnU9cZrF0/XpbGxNnLaWt7becJ0iuVYhHAxkFWU8jqDke1TjxTeSNd/b7e1v1up1uGW4RsLIBgEbSO3GDkY7Umpc1/66f8EuMoctn/AFv/AMA6Owgs9I8aarZ21hC0S2LsvmPISo8nJHDDg55zz6EViaWmnXGl61qVzpcLG2WHyIFllEalm2nPz7iO/X8qqnxRfHxDLrDR27TzIUljKHy3UrtIIznkehFWtM1yytdK1lXs7VGulhWOzxKY32sd3O4sPX7wqeWSV/JfmUpwbt0u3+BoXWg6b/Y99fxWvlltNgu4Y/MYiF2fa2MnJHHGc9aXSba007xR4YaGzjdruCGRy7vw5cjeMMOeOnT2rG/4Sq8a7nllt7WWCa3W2NoysIljXG1RhgwxjrnNR3XiW8udUsb9Y7eCWwVUgWJMKoUkgYJPrj/OaajLr/W5Mp07aLX/AIb/AII29+zajrMyn7HpSKzZY+cyud3f75z+Q4ot4bWw1W1InstVRnAZFEyqvI65CH8ifequo3yahdGdLK3tGYkstuXwxJzn5mbH4YFV4pDDMki4JRgwz7VpBWSuZ1JJybR0vjS8gHjS9H9m2p8q4O8lpf33H8Xz8f8AAdtU/F1ja6frghsIBBE1vFJ5YZmALICeWJPU+tU7vVmv9cm1O9tbeZ5nLvCd6xkkezBv1qTW9dbXJUlnsbWCZVVPMg8zJVRgAhnI6e2azhGUVFdjSc4yc332+86HWNNTV/HWkWErlI57W2V2BAIGwE4z3xVXWdP06LS7i6tkstPura6At47XUFnaaM9yN7EMpAORjr0rMu/ElzdT2lyILeG9tFjVLqLeHIQYGQWK/wDjtQ3+rpfRSKul2Nq8sgkeWFX3E88DcxCjnooHahRkrf11Byg07/1pY6TxHawax4k0HW/LDW2viJrhR8o84MEmX1HPP/Aqua5oehy2ni+PTNKSxbQbiJbeZZ5HeRTIUYPuYqfUYAIwMk9a5qy8TNaeHYtNe1WaS1v1vrSdnx5TAAMpGMlWwvAI5FEvi2/lXXg0VuP7ddXucK3yEOX+Tnjk981j7OorKOy/zT/K6BTg9Zbu36p/foyvd+JdWvrSa2urvfDOsSyL5aDcIhhOQM8D8++ayqK6HU9VgHg6w0SO6S9khna4MiRFVhDD/VgsAWOcknGOgBNdlklcw30Oer0mw8J6ZPBHp2p2mm2V7LpTXSBLi5e8DCMsHb/liAdudnBAPrXm1ddB8R9SgxL/AGfpsl59j+xPePE5leLaVAPz7QcHqACcDORRL4Wlv/wH+thL4k/63X/BLN9b6DoXhHw5evocN/eajFI9wZ7iZVwshHAR1wxyBnoMdOa1tJ0Dw8Nd8NaVd6Il0NZtTdyzG5lDx7i5VF2sBtUKASQScnkVwmo65c6npWmWE6RLFpsbxwlAQzBm3Hdk88+mK6zw546tdCsrF5bu/uprGF1itHsoCqu2eFuCfMWPplQPUdKb6vzf3a/8AlXtby/EbpfhbTdctvDtzbQCCI3ctrqpDufufvN3JOMxg9MDIqleyWk3gbVZNNgFvZtrSmCIMx2p5bbRliT09TWXpPivUNH0nU9OtRC0OpLtkMiktHwQShzwSGIPXipNP1LTP+EUuNI1GS7geS8W4WSCBZRgIVwQXX1qX5f1qr/8A0uua/r+Tt+Z0elImn+BdE1NpHjt4L6a5kSI7WuJ1KrFGPwBOew3e1V76CK3+N3lwKFQ6kj4AxgsQx/UmsDTfEs2l2n2IWtrf2sdyLmBLyNv3cg43Daw6jGVJI46U/RtWs08RpreuXV21yt0LhlhtkfzTnJyS67efQGiCtUUn/W3+Ri4vla/rqWNKuntfiUrJyJNQaF1/vo7lWB+oNUZP7O0jxXdx3lgdQsreeWMQeeY9wBIHzDnirGnazYWGt3mslJ5LsSSSWcRjXYGYnDO27PGc4AOTjmjwlqkWleIRq95eiLyMu0flF3uMg5VeMDPqSMZ4ohpFJ9F/X9eZpLdswZCrSMY12ISSqk5wPTNNqSeTzriSUKE3uW2joMnpUdC2G9wooopiCr0WmB7GO6mvbe3SRmVBIHJJXGfuqfUVRra0ub7Y9jpd3YJNCznY+XV1DHlgQccYzyMcUAU7TTRdiMC9tYpJH2RxyM25j+CkDPuRVSWJ4JnilXa6MVZT2I61sadZwWUs2qXTb7S1lKwDODcSA/KB7dyayJ5nuLiSaU5eRi7H3JzQBHRRRQAUUUUAbsf/JPJ/wDsKx/+inrKsFnfUIFs22zlwIznGDWrH/yTyf8A7Csf/op6yrCOeXUIEtH2TM4CNnGDQBXooooAKKKKALF8s6XWLtt0uxDnPbaNv6YqvVi+jnjutt0++TYhznPBUEfpiq9ABRRSr94fWmld2ASiu78aa5fReM59PW8lt9PYRxzQxthHVkXcWXoTyeTzwPQVe8T6paR3Wu6VK+o3MKwBbazWzVYLTbjZIrCQ4XHcKMhq0cEk3fv+Bt7NXavt+pwNxptxa6bZ3su0RXm/ysHJIQgEn05P6VUrsNd1fVX8D6AH1C8aO4S4SbM7ESgSYAbnnA9a3TG83jN5okZox4e3lwOADBjP58USgtbdP8m/0BU1KSSfb8bf5nmVFdvrWuajpPhnwyml3ctoWsy7vC21nw5wGI6gc8HjmtjTdRu5dZ8K6c0zC0u9PJuIRws27zAdw6N04z0p+zTbSfW39fcKNNN2v0T++3+Z5hWzpXhm61fTru8gurKNbWF5jFJOPNdVGWwi5I+rYByOayJAFkYDoCQK6bwP/rNd/wCwLc/yFc7futoykmnbzOXorb8P/wBu/ZdU/sFcxfZj9t+VD+65z97n16c1iVQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFWU1G9jtvs0d5cLBgjyhKwXB6jGcVWrTW2sYNItrq6iuJZJ3dQI5lQALj1U+tAFaDU7+1i8u2vbiGPOdkcrKPyBqvJI8sjSSszuxyzMckn1Jq/psNhdTQW00N2800mzdFIoCgnA+XaSfzFU7qD7LeTQbw/lSMm4d8HGaAIqKKKACiiigDdj/5J5P8A9hWP/wBFPWVYRTT6hBFbSeVK7gI+SNp9citWP/knk/8A2FY//RT1lWEElzqEEMMnlyO4CvnG0+tAFeiiigAooqW2lSC4WSW3juVXrFKWCt9dpB/I0AOvEkjuds0ombYh3ht3BUEDPsMD8Kgrc8Xada6brapYReTDNbRTiLcWCFkBIBJJxn1rDoDzCiiigCW4uZ7udpruaSeVsbpJXLMe3U1ZbWtVew+wvqd41ptC/ZzcMY8DttzjFUaKd2O73LUOqahb2Ulnb31zFay58yBJmVHz1yoODUi63qqWiWqaneLboCFhFwwRQQQQBnA4J/OqNFF2F2iWW6nnjijnnkkSFdsSu5IQdcAHoKkTUb2OaGWO8uFkt12QusrAxrzwpzwOTwPWq1FF2F2BOTk8mr1jrmraZC0Wm6pe2cbNuKW9w8ak+uAevFUaKQtzYstfayhvpfKkm1K9Ronu5py2Eb73y4yWP94k/SseiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACt7RZLu2e2kbU4o7AEtLE1yMbedymInJJ+ncVg0UAbmnCeO+FzYX0FrayylnRrpV2oGPDITluO2D1rLv2gfUbhrMbbcysYhj+HPFV6KACiiigAooooA3Y/+SeT/wDYVj/9FPWVYW73WoQQRv5byOFD/wB33rd02C3uvAtzFc30VkF1KJt8qOwP7pwB8oJ9fyrFtrMXGrJaQ3CsrS7FmVTgjP3gDg+/OKAKlFFFABRRUttdT2dws9pPJBMn3ZInKsv0I5oA6TxvKYbmw05FjEVvYwEZjBkBKZILkbsc/dzgelctUtxcz3lw893NJPM5y0krlmb6k8moqOtw2SQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABW/ZxSyaLarpsdjNcs8hkSRYXlI4wAH5PQ9KwK0tPm060mt7uRrppoTvMKxrtZgcj592QOn8J70AXvDljELuG4v4VkE04ghikXIY/xEg9gOPqR6VgvxI2PU1s2HiSeHUbeW9EclvFIz7Vt4yy5JJ2kjI5PrWPPKZ53kYKCxzhVCj8hwKB9xlFFFAgooooA2Yv8AkRbr/sJQ/wDoqWs2xtxd30Nu0nliRwpcj7vvWlF/yIt1/wBhKH/0VLWbYwJdX8MEsnlpI4Vn/uj1oAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACrMGm311F5lrZXE0ecbo4mYZ+oFVq2bX7HqVjZaa88tvcLK+0mINGzPjGTuyOgHQ0AZ9vp19doXtbO4mUHaWjiZgD6cCq7KVYqwIIOCCOlbMK2s1pFo91NLbXCXT5YRB0ycKMncCOnoayrmB7W6lt5cb4nKNj1BxQBFRRRQAUUUUAbMX/Ii3X/YSh/9FS1m2MMVxfww3EnlRO4DPkDaPXmtKL/kRbr/ALCUP/oqWs2xihmv4YrqTy4XcB3yBtHrk0AQUUUUAFFFT2VzJZ3kc8KxM6HgTQrKvpyrAg/iKqKu0hPYv614fk0EpFeX1o14QjSWkXmGSIMu4biUCdCOjHrWTXq2pzDU/jjBpt/a2c9oJoyUaziy/wC4BwzBdzD2JI6egrmNSEWqeA7jU5rG0tri11QW8T2tukOY2QkoQoG7G0YJyeetaTprVrz/AAt/mYU6rdk+qX43/wAjkKKns40mvYY5V3IzgMPOWLI/324X6nitrUdKsLfT5ZYLXY6gYb+3rWfHP/PNFDN+FY9LnR1sc9Wx/wAI9JH4dh1i7v7S1iuTILaGTzDJPswG2hUIHJx8xFY4ODmvQPE+sXMvw/8ACytHYqLqK5WQiwgG0CUD5MJ8n1XGamV9Eurt+DDrqef0V6nf2Gnt4i8ReGxpNnHY6dpLTW8q26CZZEjVxIZfvNknkEkcjipLmysrrxOdA/sjT4rF9DFw8kdrGkiSCHeJRIBuB3ADGcHJyOTWXtkle3S/y1/yGld/15f5nlFFeqy2/hnR/wCytP1OfR4dOm0pZLkPZSvdySSIWEiyiI4w2MAMBjORRpMGnyar4Q0VtJ057fU9NLXcrWiGSUkSAHeRuUjbnKkH16Cm6tun9a/5Atdfn+X+Z5xpmkz6o0xjeOGC3TzJ7iYkRxL2zgE5J4AAJJ7VSIwxAIPPUd66dwIPhnILfOZNV2XDD0WPKg+3JP1rofCmn21tZeG49WWzZdYuWWO3TR4rmSaPeFJkmdg0fcDZ0Az1rdK7svL8dRP3d/P8DzaivQp47Pw/4E1G4tNOspruPX5bOG4urZJmjjCA4w4IPTuCOSevNPs5F/4RvSNVt9H024utW1b7PdJ9gjZAqhVWNVIIj3ZLHbg5PGMUo+9t5fjb/MJe7v5/hf8AyPOq0tI0SXV0u5Eube2is4vNlkn34C5A4CqxPX0rvdV0G01u+8R6Jplla295Y6ukkBhgVWMLt5bJwAdqkqcdOaqXdzYT6h4xTR7eG3sbawFvCIo1UMEdVLnHUkgnJ5Oanm92/lf8L/8AAG1Z287fj/TOPsfD1/q2pPZ6Kg1EpjM0IKx89CWcLt9Pmxk1DHpuNQns7+7t7CSBijmcOw3A4K/u1b/D3qx4V/5HDSP+v2H/ANDFM8Rf8jZqn/X9N/6MNUviS7/8Am+rItY0qbRNWn0+6eOSWEjc0RJU5UHjIB6H0qjXTeOYZbn4gXsNvG8ssjRqiIpZmPlrwAOtc5LFJBM8U8bRyIxV0cYKkdQR2NJbDLuhaNP4g1q30y0lhimuCQrTEhRhSeSAT29Kfq2hT6PbafNcTwSrfwefGIixKrkj5sgYOQemao211PZ3CXFnPJBMhykkTlWX6Ecitvwq7an4t0m21Nmu4Eby1inO9VTBO0A8AZ5xSldalRs9Dn6urpV1/bEOmTqLe4lkSPEpwELYxuxnHUZq5ea3J9reOCy0+KOKbMQFlGSoGRgkqS/B53Z5ANX/ABzqE7eLrqNfKj8iRWR4oURwdo5LqAx/E0lJ3Wm//A/zLlBJPXb/AIJX1bwhdaLbpNe3tmI2vZLIlGc7WQ/MxGzO36ZPtWXqemXGk3nkXO1tyh45YzuSVD0dT3B/zzTLnUb28TZd3lxOvmNLtllZhvb7zcnqe571u6qRL8PdCkmH79J5442J5MYIP5Ak01dLUh8ren9f0jmaK1NUnuZNP05LjSYLFEixFPHbmNrlePmZj9/6j1rLqiQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKv2uq/YxG0Nna+fECEnKtuB55xu2kjPUj0qhV6LTA9jHdTXtvbpIzKgkDkkrjP3VPqKAFttVNsUcWdtJPGSVnkDFs5zkjdtJGe4NUpJGlkaSRizuSzE9yatW+nNNam5luIbaDfsWSXd87dcAKCfxxiqsi7JGTcrbSRuU8H3FADaKKKACiipba2nvLhYLSCSeZ87Y4kLM2Bk4A56CgDUi/wCRFuv+wlD/AOipazbGOCW/hS7fZCzgO2cYFbqaPrK+GZ7A6HqfmyXkcwP2R8bVRwe2c/MO1YttBHHqiQakHhRZNkysCGTBwQR1BoAq0UUUAFAODkUVJBBLczpDbxPLLIdqRxqWZj6ADrTV76Ab+jeKpYvHdr4h1x5Ll43DStEihmwm0YAwOmPSqGq+IdR1iJIbyZDBHI0iRRQJEu5urEIACx9Tk1JrGlJFrUdjpFjqquyL/o99BicueuFXt6Ve8T+GR4etoEOn6kJTHG0l5KcQF2XJRV2dR0+92PFW+bld9r/j/SBUUpN22X9fmczRRW1faPDpul2az+dLqt8qyxwxkbYoyfl3DBLM3YAjHHWswMWrl1qt7eafZ2NzNvtrEOLdNgGwMctyBk5Prmuk1bwZJovhazu7vSNXkvbmIySyAbIbX59qq6mMkkj1ZeornrvQtXsLX7TfaVe20G7Z5s1u6Lu9MkYzVSg4uz6ERqRkrouT+MNdudOeymvt0UkSwSOIYxLJGvRGlC72X2JIrT8S+OrrU3MOlu1vaPZRWsm+3jWVgqjcvmAFthIzt3Y9ua5GisuSN9i1obVr4u1mztYLeG4hZbdCkDzWkUskKnqEdlLKOTwCMVFB4m1e2vtPvIbvbPpsXk2r+Uh8tOeMYwfvHrnrWVRT5Y9gNXS9aFnbXlnfW7XdleAGWJZPLYODlXVsHBH0OQcVZ03xpruj28EGm3oijtnZrcvBHI8O45YK7KSoOOQCAeeOa0IfAjz6foN2l/8AJq0qxOPJ/wCPfcSFP3vmztb06VWl8I+XcaJH9uz/AGrcvBnyf9Vtl8vP3uc9ccV0+wq3tby/L/NCumr/ADMq513UbvT5bK4uN9vLdteOmxRmZhgtkDPTt09q1fDPimDw/b7Wg1J3M3mOtrqjW8U64GEkQIdw4PQjIYioNY8M/wBk6SL37X5ub6az2eXt/wBX/FnJ6+nb1qr/AGL/AMUn/bfn/wDL79l8nZ/sbt27P4YxWahJXt0S+7S36Deu/n+t/wBSeLxfrNt4kvNcsroW19eF/NZEBGHOSAGzx0x34qPQ9ah0uHUIbu1kuYr6DyX8uYRso3A5BKt6elLoWl2utGWxDyRakylrUlh5chAz5ZGMgnnBz7Y71kEFWKsCCDgg9qz0Wn9WDfUv2urPpWqG80ZBDjHlfaUjuGTGDnLJjOR1ABqSTV49S1F7vXbdrh2H/Ln5VqS2c7m2xkE8nnGfesuin1uB0Uuv2uoeNH1y6F1ZJuWRI7Vg75UAAbjtxnHXBx6GsnV9RfV9Yu9QlQI1zK0hQHIXJ6VTooAKsWN9cabfRXdlJ5c8R3I+0HB+h4qvRQArOXcuxyzHJPvV3UNYvdUVBfvHKyYHm+QgkbAwNzgbm49Sao0UrId2PiMYmQzqzxgjcqNtJHcAkHH1wa0NX1carNbIkP2WytYxDBArb/LXqSTxuYnJJ4zWZRTEbWu61Ff2OnafaNcSW2nxsiS3OA7liCeASFAxgDJ4HWsWiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK2tLm+2PY6Xd2CTQs52Pl1dQx5YEHHGM8jHFYtWU1G9jtvs0d5cLBgjyhKwXB6jGcUAdAJFh03S4bOCG8T7XLE5eISbvmGBz0yDnIwawNShit9Vuobc5ijmZU5zwDxTIL26tVdbW5mhV/vCOQqG+uOtQUAFFFFABWt4aJXWGKkgizuiCO3+jyVk1Ysb64028W6s3VJVDKCyK4wylSCGBByCRzQBtMPC4ti1vqmuNdBMoj2UQQvjgFhMSBnvgnHaoNX+z/8ACd6h9t4t/wC0JfM6/d8w56c1ZXUb4+HX1Qf2eCl2tv5f9l2/dGbOdn+z0x+NY8V0l3rQutVPmLNMZLhsY3ZOWOB9e1AFOiiigAqW2tbi9uFt7OCS4mf7scSFmb6AcmoqKAOv+IOn3tvqdnPPaTxQ/YbePzHiIXeIxlckYyPSq/xA/wCRpH/Xpb/+ilrmKKuUua/m7/n/AJmnPo15JfcFdN47JuNcgv0Obe8s4ZIDjooQKR9QQa5mrZ1S7bSl055Fe1Vy6K8asUJxnaxG5QccgEA1HQz6nT+Kf+QT4N/7B4/9GGun8RW15Z6141v9VEkenXFkILd5Adk0h2eWqHuVwenTBzXlCOY5FcdVIIzVzWdVn1zWLnUrtI0muG3OsQIUHGOMknt61v7Vcr87/irHN7F3Svov80ynGQsqFjgBgSdob9DwfpXU/wBt6Z/z+/8AlsWX/wAXXKUVgdJ1f9t6Z/z+/wDlsWX/AMXXLysGmdlOQWJB2hc/gOB9BTKKAPYPCM0cs/h3TJyALjTUniz/AM9Ip3Yf+O7qz4LOfVLjwvPYxmaLTtRuPtki/dtwJ9+XP8I285NeX0V2/W3dO2zv+N/+ASo6W9Pyseg61ZXmveDEl0azub5W1m7k/wBHhaQhTjBOAcVUh0XVLj4Zy2dvpt5LdQ6zmSBIGZ0/c91AyOoriaKx9qtdN0l91v8AIr/g/jf/ADOi8Lafe2/jqwguIZbWa3mEsyzIUMaKNxJB6fL/ADrH1OdLrVru4i4jlnd1+hYkUttql3Z2NxaW0ixxXI2ylY13svHy78bgOOgODVSsGAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFaa21jBpFtdXUVxLJO7qBHMqABceqn1rMre0WS7tntpG1OKOwBLSxNcjG3ncpiJySfp3FAFTSLazv7yCzkt7hpZXwXS4VVA9cFD0HvVG6WJLuZbdmaJXIRm6lc8GtOwuILZdTvomWNthjto9w3DecZA68LnmsegAooooAKKKKAN2P/knk/wD2FY//AEU9ZNi0CX8LXi7oA4Mgx1Fa0f8AyTyf/sKx/wDop6ybGSCK/he7TfCrguuM5FAEFFFFABRRUtrdXFlcLcWc8lvMn3ZInKsvbgimvMDf8beVa62dMtILaG3tY4goigRX3eWudzgbmOc9Sa5uuo8e2Uq+IZNQjtmWzvEjkjuFjxHKxjUsQ3QknJOK5ep9R9gooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorfs4pZNFtV02OxmuWeQyJIsLykcYAD8noelAGBRXTaRah7GzMNvasz3RS6+0ouWHGFTd7Z4XnNc/eLEt9OtuGEQkYIGByFzxnNAENFFFABRRRQBux/8AJPJ/+wrH/wCinrJspYYL6GW5j82JHBdMZ3D05rWj/wCSeT/9hWP/ANFPWTYzx21/DNPH5kaOGZMZ3D05oAgooooAKKKKAFZSpwwIPXBFJVi+nkuLrzJo/LbYg24xwFAB/EAGq9ABRRSoVDqZAWXPzBTgkfXtQBcj0bU5tNfUYdOu5LKPO+5WBjGuOuWxgVSr0Dxg2kHwp4Whhsr5PMsma3zeqyx7pTu3DyhvJ9QV7ccUzWfB+gw6hr+l6VJqAvNHtvtQmuJUaOZRtLLtCAggMMHJzg8CsVU6vz/B6jWtvl+JwVWBYXh083wtZzZh/LNx5Z8sN127umfauq17RPDHh02EFyNVupryxjumaKeNFhLpkDBQ7/mz3XAxyahkt4X+Fn2y0udSiCaitvLaSXge3kYxljIIwoweAOSfrVc+l1/WtgWtv66XOTor0C28GaDcXWl6Wsmo/wBo6lpQvlm82MRROYywUrsywJU/xDHHWq9q2iJ8JXluNOvHc6oqSNHdojM4iJByYjheT8vPJ60Ootbf1rYErtf10ucjp+l6hq0zRaXY3N7Iq7mS2haQgepCg8VGlncy3n2SO3le53FPJVCX3Dtt659q7fw7JpMfws197iyvXPn2qXBivFTzPmYrtzEdoHcHdn1FZOm7NO8E6nqtrlLi5uVsYmJy0cZUs2DxyRgZ9M+tNSbcl2/4H+YlqjmnRo5GSRWR1JDKwwQR2IptdLo+i6bdeHWv5Yr7UbpJystpYzKjwRBc+YQUcsPfAA7mrfhb+yP7I8SNLZ3UwjtMhxcIjeWZFAA+Q7W9TyO2O9dCpPZvo3+F/wCv8xX29bfjY4+pLi3ntLhoLqGSCZOGjkUqy/UGuhs9K0dNBbWtQW9EM199mtoIpk3IANzOzFPmxkcALn2rpte8LJqeveINVktNR1BYLmOCK109cO7FFJYna2FA9jyRVqhJxv8A10/zC55pRXdSeB9OstR1pdSnvEtrC0jvIQoVZCrkfIwI4b+HtzzjtVDRNH8P6299KP7Rs4LKxa5kVpo5WLKw4B2KCCp9Bz3qfYyvZ76/he/5Mf8AX5f5nKUVd1B9MfyjpUF3BwfMW5mWX6EFUX8sVSrJgTWlpc39yltY28tzO+dsUKF2bAycAcngU65sLyzSJ7y1nt1nXfE0sZUSL6rnqPpU+iaxcaBrNvqdksbTW5JVZASpyCOcEHofWuh8N63c6t4u8Ow3Kxotgv2eLywRlfmOTknnntiok2tUXFJ6M4+rEtheQ3MdvNaTxzygGOJ4yGfPTA6nPatfWryaSYLf6++r24nJa2SeYFRzyDIm0HtkZ+lJ4vg8jVLbFzd3CyWcUqm7m810DDO3dgcD6UlK9vMqUErrsZF3ZXVhN5N9bTW0uM7JoyjY9cGoK67XrB9V8RaDYRtsa4sLWMNjO3I64puteFIrTSr67tbTUrQWM6xk3y4W4QnG5PlXHI6c8Ec0vaJb/wBa2H7Ju/L/AFpc5OipLeFrm6igTAaVwgz6k4rpb3w9pf8AxN7WwluftekqHeSV1KTgEK+FCgpgnjlqpySIjBy2OWorrtR8N6Sl/qmm6e179qsLf7QJJZFKSYALLtCgg4bg57dKs3fgVIEurZLfUhPa2nnm9kTFtI4AZkA28cHAO7qOlR7WNrl+wm3ZHEUV2A8M6S9zBp8b3pvLjTvtiymRPLRvL3bdu3JHB5yMZHXrXH1akm7ESg4q7/rZ/qFFdrp3giO5ttNSW31KSbUITL9qhT9xbZB2BvlOenPzLjIrObRtL0/w3a6lqP2uaeaeWAwQSqg+Q/e3FWx9MHOe2Kn2kb2K9jK1zm6K6RNL0RPDb6zN9udDetbwwLKiMy7QQS204IGc4Bzx060qaVocen22oXX24wX1yYoYkmRXiRcbmY7SG5PAAXpT51ewvZvuc1RXWSeF9P02z1ebVJriU6ddrAqwMqecGBxyQdp6HPPfise3OgtqZN0mox2Ji4WNo3lD49SACuc9gaFNPb+uoSpuOj/rWxl0UHrx0rsfAupRRyf2aI5vNmn3t5aqUmjEbApKSRhBnd0PfinJtRuhQipSUWzjqK7S6sotR1t9Pv4LyztbG1I06yb9xJckHHG8H5mOT0JPQdKh8NXllpfjNLKWG6s7G+iawvobtwWQSfKcnavQ7W5Axio9p7t0ipU+V6vT+v68zkamtbS5vrpLayt5bmd/uRQoXZuM8Acnium0Pwpay+JdZ03xA91DHpVrPM/2fAdjGRwNwIwR/SpJ0g8Kjw74q8OpMq3aystveyCXY6MUILIEyCD6Cj20W0l1/W/+QvZySbfT9Lf5nL3NheWUcT3lpPbpMC0TSxlRIBwSM9fwqvWlqmuXOr2thb3KxKlhCYYvLBGQWLZOSecntis2tFfqQ7X0Cirmk2gv9Ys7RoriZZplRo7YAyMCeQueM46Z4rrdU8FWcGlw3kKS2jrqaWNxbtqUF4cMDzuiUbGBUgqwqrP+v68yW0r/ANf1scNRXbaz4b8PWfi6bwvYHUpb37StvFeSTR+UHZwMNGEyQFONwYZI6AVJeeG/DKWHiCW2/tUSaFdRQSeZPGROrS7GYARjaeGwMnt16Ulqk11/r9RvQ4WrzaLqqWP219MvFtNob7QbdhHg9DuxjFdReeC7DTr/AMSSXVxOdO022SWzkV1DTtLjyQTtwRgnOAOnas3xh/q9A/7BEP8ANqOn9ef+Q7f193+ZzdXjouqrY/bW0y8Fpt3faDbt5ePXdjGK6ZNQuL34S30c7J5dvfwJGkcSoANrdlAyT3J5Pc1R8L/8i/4m/wCvFf8A0YtTzfF5f5XJTvb+utjn5rS4tkie4t5YlmXfE0iFQ6+oz1HuKhrptBxqfhbWtOuTuW0g+3WxIz5bKQGA9AwPP0rHt/7K/sm5+1m8/tDI+zeUF8rHffnn8qrYa1KNFFFABRRRQAUUUUAFFFFABRRRQAVpafNp1pNb3cjXTTQneYVjXazA5Hz7sgdP4T3rNqzBpt9dReZa2VxNHnG6OJmGfqBQBpLqtndxWp1ATxy20zyfuEUiQM24jkjac9+ay766N9qE90UCGaQvtHbJzRDZXVxG729tNKkf32SMsF+uOlQUAFFFFABRRRQBux/8k8n/AOwrH/6KesmxuEtb+GeSPzFjcMU9a1o/+SeT/wDYVj/9FPWTY3Is7+G4ZPMEThimcZxQBBRRRQAUUUUAWL6Wae6L3EflvsQbcEcBQAefUAGq9WL6SeW63XSbJNiDGMcBQAfywar0AFFFFAG5qfiAatZ6HaG38gaXB5BcybvM+fduxgY6+9dL4y8WafBr/iFdDthJcaki28t+t0JImiwu4IgXgnABJY9DjGa8+orN04v8fx1Bafh+BseJNe/4SC7tJ/s32f7NZxWu3zN+7YMbugxn0q+niTR18HtoJ0i+KvcC6ab+0UB80Jt6eT93vjOfeufls7iG0gupYmSG4LCJz/HtIBx+JqCqcFazGtLHW2njj7L4i0nVP7P3/wBnactj5Xn48zCMu/O3j72cYPTrWfp2v2kPhmfRNU0+W6t5LlbqOS3uRC6OFKnJKOCMdsD61hUUuSL/AK87/mLb+vkbFnr32Twpqeii23/b5YZPO8zHl+WScbcc5z6ipNF1C1Ok3+janN5EF1tlhnKllhmXOCQATgg4OAT04rDrUsfDer6jps+oWlk72lujO8zEIuFGTjcRuxjkDJqtFd9w7FnSdV0rSp7aaTTrie8s5zItzbXxiWXByMq0ZOOOxU4NOs/E4TUNXn1CyWeLV0ZZ4oJPKKZYNlDhsYI7g1gUVqqkkrf1qrMDftPEFhDpz6bd6XNc2SXX2q2Q3YV42xgqzBMMpAGcBT7irV94wh1W61MalprPZX8yXAhhuNjwyKu3KuUIIIyCCtctRT9rO1rgb0PiC0s7bVrbT9NaGDULaOBQ9xvaMqQSxO0biSOgAAzVbRta/si31OL7P532+0a2zv2+Xkg7uhz06cVlUVPPK9/Jr5O/+bD+v6+40/D8Qk1y2aT7F5cTiSQXzqsRUHnIJ+b/AHRkn0qPXJ7O51++m0uMRWbzsYUVdoC54wO307VQoqACr+h6n/Y2t2uoeT532d93l7tu7jHXBx1qhRQ9VYadncnSWBr4y3UUjwsxZkjkCMc+jFTj8q0vEGs2estBJBYz20sMKQZe5EilFGBwEXn3z+FY1FTyrTyHzPXzN678SJPPpt5BaSQ39hHFGshnDRsI+nybc8/71VdRv9Lu1ne10uWC5mfeXa73onOSFXYOvuTisuijlQ+eWw+GV4JkljOHjYMp9CDmugvPFMVwmoSWun/Z7vUwq3Upn3LjOW2LtBXcQDyWrnKKbSbuxRlKOx2XiXxDZQ6zq39lwB57yNYHvFuA8ZTAztUDgnABO49OgrIvtasNTZ7q+02R9Qki2NKl1tjZwMB9mzOenG7GR+FYlFRGmkrFyqykzoYvFXla1bah9jz5FiLTy/N+9+7Kbs4984/Wueooq1FJ3RDk2rP+v6sbY1qxurazTV9NlupbOPykeK68oPGDkK42EnGTyCOPzqtdav8AafD9lpgg2fZZZJPM353b8cYxxjHrWbRS5UPnkaL6tu8Mx6R5ONl0bjzd/XK7duMfrmrVhr1vFpdvY6nYNeRWtx58Bjn8ogn7yt8rZU4HTB96xKKOVCUmjcvPE01/p+owXMCmW/u1uWkVsBMAjaFx059e1Z+l6j/Zl2ZzZ2l5lCnl3cW9BnvjI5qnRQoxSsv66Dc5N3f9dQJyfStjRNfOhRu9nbg3byITO7ZAjUglAuO5Ayc9OMVj0U2r6EptO6Oiv/EWnakVjutJm8iMOY9t5iRXdy7HdsII5xgr+NUNb1j+15rYpCYYrW3W3iDyb3Kr3ZsDJ/ACsyipUIrYuVSUr36nZ3fja1k1CfUobOWS81DRzYX29gi+cQFMqnnIwo4wOaxNR17+0PDOj6R9m8v+zPO/e+ZnzfMfd0xxjp1Oax6KmNKCtbp/wf8AMXtJWt/XT/IltYGubqOKMxBmPBmkWNfxZiAPxNa/i650+514tpcVtHGkKJJ9kTbE0gHzFB6Z798ZrDorUg0vD2sy+HvENnq1vGsr2sgcRv0YdCPbgmtu48Yacuirpmk6G9pH/aKX7yS3nmu7Lu+XOwDGCAOOMHOc1yVFO4rb/wBd1+rNvUtffVfG0uuxZ095rsTqQfM8g5Bz0G7HXpXT6/4n0tvC+tWsE2mXF9q9zHJI2mW1xGpCtuLyGboSf4UGOSa89oqbWior+v6sPd3Z0mr+MZdW8Jadoj2qxtabRLciTJnCBhGCMcbQxHU59qPEE1hqWnaZNbanb+baafHBJbNHKJC4JyAdm3v/AHq5uim9b+eoLTQ6K18QaZB4Um0WTTLt/PlWaSZb5V+dQQML5RwvPTJPvT9In0/TfDuribU7d5760WOO3jjl3q28HBJQL27E1zVFKy18xJWN63vrTSfC91Ba3K3F/qQWOXYrAW8Q5KkkDLMcdMjA61JYtZWvgvURfx2MlxdMn2Mgq9whDfMTjJRceuM+9c7RTeo9gooooAKKKKACiiigAooooAKKKKACtm1+x6lY2WmvPLb3CyvtJiDRsz4xk7sjoB0NY1X7XVfsYjaGztfPiBCTlW3A8843bSRnqR6UAa9nGdulQw3UUMtldOLhGlCsG3jkA8tkccZrE1VUTWLxYsbBO4XHpuNPtdUa0xIltA1wpJW4cMXUnv12k/UGqRJJJJyT1JoASiiigAooooA3Y/8Aknk//YVj/wDRT1lWFybPUILhU8wxOGC5xn2rVj/5J5P/ANhWP/0U9ZVhO9rqEE8SeY8bhlT+8fSgCvRRRQAUUUUAWL5p3us3a7ZdiDGO20bf0xVerF8bg3WbwYl2J6dNo29PbFV6AClH3h9aSjpTTs7gdt4suoLTxZNpFlp+nW1o4SNz9jjLAuoy4bG5SM8YIHHTrm34iTQbSTWdNll0uJLeMJYw29pILhJUxjfJ5Y3buc5YjpXD6hqN1qt895fy+bPJjc+0LnAwOAAOgq5N4l1S4tZIJ5onEkYieU20XmugxgGTbvPQdT2rRzTT+f8AwPuN/aK7/r+rm1ruq3D+CdBUx2mJ47hWxZQgjEmPlIX5fquM960pNNsT4xaJLK3MP9h+dsES7d/kZ3YxjOec+tcaut3y6SNNMkclqu4oksEchj3ddjMpZc+xFWovFutQ2ywR3ahRB9n3eRGXMWCNhfbuK89CePwpynF3/ro1+oRqLmTfl+Fv8jZ1S8h0bw74eey07TzPcWpknlmtI5TJhyAPmB98kc9OeK1bCOzn1Pw3praXYCHUbEvct9mQu5O/BDEZUjHUEH1rgrrUrq9t7WC6l3x2kflwrtA2LnOOBzye9Txa/qcF3ZXMVztmsY/Kt28tTsXnjGMH7x65o9ouZt9/w1FGok/kvv0/4JQddsjKOxIrpvA/+s13/sC3P8hXMElmJPUnJrS0rxDqOiwyx6c1ugmUrIZLSKVmUjBUs6k7Tjp0rBpuLRjLe67i6PPcw29/9m0mDUFaAiV5bdpfs6/3wR90+9Zdb+k+II9MttSnDTG9vong8mKNY4ArdWIU8kc4UKAPXtWBT6h0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKu2+mtLai5muILWJn2I0xb5yOuAoJwPXpVKupt5Q2n6DDFaQ3CSu8UokiDn7/ACAT93g5yMHp6UxGPaaLNdorCe3i8yQxQiRiPOYdlwD7cnA5qhIjRSNHIpV0JVgexFdaUit7fTjYL50kdzLbwYBIUmTO4++3GPz7Vz2tOkmu3zRY2Gd8Y7/Makfco0UUUwCiiigDdj/5J5P/ANhWP/0U9ZVhNLb6hBNbx+ZKjgqmCdx9OK1Y/wDknk//AGFY/wD0U9ZVhLNBqEEtrH5kyOCiYJ3H0wKAK9FFFABUts0C3Cm7jklhH3kikCMfoxVgPyNRUUAbPinTItK1kQ28sskMkEU0ZmYM6hkBwSAAcdOlY1dT43dI7jT7Qwq8sdhAWu2ZjJICmcHnbgZx0zx1rlqOrQLVJ+SCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKnhvbq2ieO3uZoo5PvokhUN9QOtQVv2ekEaVbXCWMd5NdMxCzTbAFBxhQGUsxwT34xxzR0AxoLy6tUdLa5mhWTh1jkKhvrjrUNbGkQWV19siuLRjKsEsisZSAm1cgADHOfUn6Vj0AFFFFABRRRQB02m2T6h4EuYYpreJl1KNybidYhjynHViBn2+tYlsLi01ZFtgktxFLhAhDqzA9iOCPcVei/5EW6/wCwlD/6KlrOsGnTUIGs13ThwYxjOTQBXooooAKltrh7W4WaJY2ZegliWRfxVgQfxFRUUAWdQ1G61W9e7v5fNmcAFtoUYAwAAAABgdBVaiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACt61vbSe10v7Vd/Z2092LIUZjIu7cNuBjPbnFYNFAG5pt3atqOoXdzdRWwuI5kVGVycuDg/Kp45rFkUJIyq6yAHAdc4b3GQDTaKBhRRRQIKKKKANmL/kRbr/sJQ/+ipazrD7R/aEH2L/j43jy+n3u3XitGL/kRbr/ALCUP/oqWs6wFwdQgFkcXG8eWeOvbrQBXooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACuotIhbaRpkcGoSWE18zNvhQku27ChmBBCjj15J4rl61LXV4ore1S6tDO9m5eBhLtAyc4YYORnnqKYi1o8mprrAs1uWhiglaS5AbCBQfnLdiOMc1j3jxSX072y7IWkYouMYXPArSj1uH+z57a5tpWe5lMk8sM4QyeinKHgVkyFDIxiVlTPyhmyQPc4GfyqShtFFFMQUUUUAbMX/Ii3X/YSh/9FS1nWCzvqEC2bbZy4EZzjBrRi/5EW6/7CUP/AKKlrOsI55dQgS0fZMzgI2cYNAFeiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANmL/kRbr/ALCUP/oqWs6wimn1CCK1k8uZ3AR8kbT65FFFAFeiiigAooooA0NC0v8AtrXLXTvO8j7Q+3zNu7bxnpkZqjIuyRkznaSM0UVTXup+v6F2XLc2vEPhs+H4tLd7rzxf2q3BxHt8vP8AD15+vFR65osGl2unXNpdyXMN/CZV82ARMmGK4IDMO3rRRWtWKjzW6Sa+Wpo4rX0T++xj0UUVgYGpZaOLnQb7VZrgxxWrLGqJHuZ3bOAeRgcdeT7VasvD9q/hOTXtSv5oIvtf2SKK3thKzPs35bLrtHbjJ9qKKzqycYtryCOrXqYNFFFaAFFFFAGz4b0FNclvzcXbWtvYWb3czpF5jlVIGFUsoJ57kVDpmkJrPiKLTdPuG8uaQqk08ew7QMklQWwcA8ZP1ooqE37Xl6W/UX2W/P8AQsaF4fi13X5bGC8eK3iikmad4Rv2IpJwgbGfbd+NZV2tsl062M000AxteaIRseOcqGYDn3NFFbWXs4y6sjmftpR6IhoooqDQ2PDehL4gvbqB7k2wt7OW63CPfu2DO3GRjPrWq/gC5l1yDTNPvYpZJdOjvy86GMKGx8vG7JGRzRRWU5NPT+vi/wAkbQimlfz/APbf82YUuj3EWiDVGeMwG5NttBO7cBnOMYx+NP8ADmjjX/EdlpRn+z/apPL83Zv28dcZGfzoorRMzmkti1r/AIcXRNN027S8Nx9u875TFs2eW+zruOc9e2KwqKKmm243fmVUSjKyCiiirMyzd2MlnHavKyEXUImTaTwu5l598qarUUVTXvWFF3Rp61pA0o2bxTmeC8t1uImZNjBSSMMuSAcg9CazKKKgp9PRfkFFFFMQV2fh/wCF+teJNFh1SxurCOCYsFWaRwwwSDnCEdvWiit6MIybuJkGl/DvVtXj1R7a4slGmSvFN5juNxUEnbhTkcd8Unhb4eat4u06W9024s4o4pfKYXDuDnAPZTxzRRVwpxbSfYH+pWvvCE2nx6xHPdRtd6QyeeiKTGyvgAq55JyRwVH17VztFFcz0lYp7BRRRSEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH//Z)

Main 함수입니다.

FILE\* fp; // 입력 파일을 열 때, 출력 파일을 열 때 사용

char str[100] // words.txt 파일에서 한 번씩 읽어올 때 각 단어를 저장하기 위한 공간

int wordNum = 0; // wordNum은 총 읽어온 단어의 개수를 저장하기 위한 변수, 아직 아무 단어도 읽어오지 않았기 때문에 0으로 초기화

WORDINDEX\* wordindex;

Wordindex = (WORDINDEX\*)malloc(sizeof(WORDINDEX)); //WORDINDEX 구조체만큼의 공간을 할당하고 그 공간을 가리키는 포인터 변수

memset(wordindex->tNodeNum, 0, sizeof(int) \* twoGramNum); // 아직 모든 2-gram이 0개의 단어를 가지고 있으므로 memset함수를 이용하여 wordindex->tNodeNum 배열을 모두 0으로 초기화

fp = fopen(argv[1], “rt”); // words.txt 파일에서 각 단어들을 읽어와야 하기 때문에 읽기 전용으로 열기

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADk3LTIzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0OAAAkpIAAgAAAAM0OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMjoyMiAxMDozMjo1NwAyMDIwOjEyOjIyIDEwOjMyOjU3AAAAOQA3AC0AMgAzAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMTItMjJUMTA6MzI6NTcuNDc2PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPjk3LTIzPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAKMCAwMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6KVF3uqjucV1WrwMsl7YWOoSIlnCCbMJtjKDGTnPLc5OR170dA6nKUV0Wn3U93pl99qvTdgWrBbLklMYwwBAUY6/Lk1ztHUOgUUUUAFFFdB4esFvNPujFpA1W8NxBDBDukz8yys2AjAk/IKAINf8A+PPQ/wDsGj/0dLWbBFFJbXLySbXjQGNcgbyWAI9+CTXZXOh6hHbv/b3hGTT4EtZ1gnla4HlssUkiqu5yOqk4x61xsEcDW1y0r7ZEQGIZ+8dwB/TNAEFFFFABRRXXeF/D2na3ojS3gMX2e8/0m4SQhlg8pmxg5X7y9cd6uEHN2Q4rmdkc1b6fc3Vrc3NvFvitVDzNuA2AnA4J559KZaWk19eQ2tonmTzOEjQEDcxOAMmvRv7KsfDXh3U4J7NbiUWIecNI4Ep+0lUzg8DCj7uM1g3Wnadba/oTppsLW2q20LyWzyS7Y2dtrFSGDdsjJPWr9nqv66v/ACNZUnFX/rp/mc+2jXqaw+lyxxxXkblGSWZEAYdtxIX9eahv7G40y/ms72PyriFtsibgdp+o4rR1S0hsfGtza2qeXBDelI1yTtUPgDJ5rpbrSLbV/ipra34DwWwluHjMwiEm0DClzjaCSMnsKiMeZJrrf8LCdP3pRW6aX33/AMjgaK6PxFp1hBpNjd2wsra8d3juLSzvFuFAHKuCHcjIOCCe1YmnwJdalbQSnaksyIx9ASAaXL73KZyXLuOm027t9PgvZ4hHBcEiIs6hnx3C53Y98Y96sXfh/UbDTYL68jhhiuEWSJHuYxK6McBhFu34OOuMVoeLbsDxxd+ZbpLBaSiCO2l3BPLT5QvykEDjsR1roPiDdac+u6PbXWmW9vAbGzaS4t2l81ItvKKC5XAHTKk+9Yub923UWzafRHntFdtrejWl3cRroej2cel3N8kNrqtncSy4QnG2VWc7XO5Tgqh4OARVLxOuk2OsX+g6XoSbreUW0V408pnd1YBmI3bDuwwwEGMj0ojNSskt/wCv1G1a/wDX9bHLUV6NqnhfShpmvQtb6ZZahpUKTiKyuLmWWP5gCkrSfu24bkpjBHpkVLq/h/w+2reI9HsdIW1bTNL+2RXYuJWkMgVHIwWK7SGxjGff0n20QscNZ+H9RvdKk1KGOFLONzGZp7mOEM4G7au9huOOcDJqvZ6bdX8c8ltGDHbpvlkd1RUHQZZiBk9h1Pau11LULQfCPSCNFsf3l5cIPnn+RgqjzB+8+99crx0rG1XFn4A0SC34W9lmuJyP42Vtij8B/OrjJu/3CWqT9TK07QdQ1S1murSOIW8DBZJp7iOFAx6Dc7AE8dBzWd0rurbULWL4Ruz6NYzbdWSNg7zje3kn5ziQHd9ML7VYs9G0F5vC2nS6QJJNZtc3FyJ5d8bFmVWQBtoIxk5BHHQc563Ru0ovt+Jz+2sm5Lv+B57RUtzD9nupYCd3luyZ9cHFRVzJ3V0dBq6Z4a1bWLVbjTrZZYmuVtVYzIuZWGVXDEHn16VWl0nUIUuHezmMVrIYppVQsiODggsOP1qbTvEGp6TCsWn3PkotwlyB5at+8TIVuQemTx0rq/B+oTatHJbz2LXP2eKbzZfOCK6ysGKlcY3EjGcgAZJ6VM5OKv0/r/g/ga04xm0nv/w/6W/E4ee2ntiguYZIS6B0EiFdynoRnqD61Z0/Rr/VLe7nsYRJHZoHnYyKuxScA8kZ59K6Dyo7i/1J9ct7WXWZ2jktIbi4K27Rtz8ro4X7uAMtjHHWsea/vtHvtQt7aBtMFwointWXdhchsZfJHIB9feiMr6ClDl16FTVNMu9G1Kaw1KIQ3MJAkQOrbSRnqpI6GqlWdR1G61bUZr7UJfOuZ23SPtC7j06AAVWqle2pDtfQKUAswVQSScADvWz4Wj0eTVZF13Z5Zgf7OszusTTY+QSMnzBc9SCPc4rYsI/7N8faILrw9a2fmSw7USeWSGTMgImjfzDnggfeZcg8dq3hT5nHXcxlU5b6bHHyRvDK8UyNHIjFWRhgqR1BHY1JZ2kt/eR21tsMsp2oHkVAT6ZYgfrXbWlrpviL4ttp97pkENs13crMIJJQZSN53Elzg5GflwPauX1S/wBNuYmhsNGhsikuUmSaVnZORhwzFSehyoXp05qOX3VJsand2t/X9Izp4Jbad4LiNopY2KujjBUjqCKZXTeLsXFjoWpPn7Td2IE5PVyjFAx9yAPyrnrWPzbuKPyZJ97hfKiOHfJ6LweT24P0qFq7GmlroiorvtB8NQ/2g1zceFdeiWzja4VbiXcsrLyqY8gEknHAPrWJ4ktZ283ULvQtaspp5tz3F9JuQk54/wBUvPpz26UPQFqc5WnL4Z16C3aefRNRjhRdzSPaSBVHqSRgCs1fvD613Hjy30iTxtd+beXgumMQMItF8v7i8eZ5mcY77a3hS5o387CvY5KTSNSh09b+XT7qOzfG24aBhG2emGxip4/DWuzWy3EOi6jJAy71lW0cqV65BxjHvXeXEjy/EbxXaysfs39mTRlSflCpGpX247VjeLotLe00Nry8vIrgaNBsjitFkQ8HGWMikc/7J/GqlSioOa/rf/Ia1/r0/wAzk7rTbqztre4njAhuV3RSK6urY6jIJwR3B5HcVVrpvD+Lvwj4hs7jJihiS7i/2JA23I+oOK5mubrYOgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFbE+urL9omW1K3lzEIpZvNypGACQuOCcDuax6ttpl0lqJ3REQpvCtKocr6hCdxHvijoHUsx6naWqztYWMkU00bRhpLjesYbg7RtB6epNZdWIrG5ns5rqKItBBjzHyBjJwPr+FV6ACiiigArV02608aReWOoyXMXnTQyo8EKyfcEgIILL/AH/0rKooA6GEaTo5ecT6k8k9nMsKS2Kxq4kjZA2fMPGT1APSsWBYGtrkzNiVUBhGep3DP6ZrW8Tf8e2g/wDYKj/9GSVkwC3NtcmY4lCDyRzydwz+maAIKKKKACtLTtdutM0zULG3WMxagipKXUllAJ+7zweSO9ZtX9D0p9b1y106OQRG4faZCM7R1Jx34B4ppvoNNx1Ro6j4y1LVPtn2pLf/AEu2jtn2q3CocgjnqT1qJfE8xuNPmuLCzuG0+BIYBJ5gA2tkMdrjJz+HtWZfRWsN0yWM808S8b5oRGSe/AZuPxqvT55Xv/X9alOUtmaOq6w2qaodQ+yW9rOzmRzBvw7E5yQ7N+mBV248W3U2u/2vHZ2cFy+7z/LDlLgMMMrqzkYI44x1+lYNFCk1sLnle5ev9RivIYo4NNs7FY2Zj9nDkuTjqzsxwMcDOOTVEEggjgiiild3uJu5s6/qlprbxagBNHqLoq3SbB5bsBjeGznJAGRj15pNR8S3WqaxZajd21q72cUUSxGMmORY+gdSTnPf1rHoqbIRvT+K5jpMunabp1lpUE8yTTfZPNLSMnK5aR2IAJyAMUuoeLZtSaW4uNM04ajNs8zUEjcSsylTuxv8sMdoyQo6n1NYFFLlV7/1/WgHV3nxB1C8tdTiOnabC+qoFvZ4onEkxGMNkuQDx0AA5PFVZfGeozaxquotDaibVbM2c6hG2qhVVyvzZBwo6k9+K56ikqcVsh3NKfXLm48N2miukQtrWd50cA7yzgZyc4xx6VPbarazeG30jVPOURSme0mhQOUYjDIwJHyng5ByCOhrGoqrJXEaA1q4HhttECRfZmuhdF8HfvClcZzjGD6V01140isdM0EaTDaT31jYGL7TLHJ5lrIxbO3kKTgggkMAelcTRWntJJf10M3TjJ6/1c6LSdXh0zw3q8ct2s8upxiIWgjJZWznzGcjAwM4AJyTzjFc7RRUdbmgVr6d4lvNLt7eGzjgSOKRpHBUnzyy7cPz02kgAY65681kUUmk1ZjUnF3RtTeI/tTf6ZpOnzooRYkZZF8lVXAVWVwxHsSeaoapqVxq+pS3t4V82QjhFwqgDAAHoAAKqUUlFJ3G5yaszZ8K3kOmeILfUZ71bRbRvMx5RkaUd0UYxkjjJIAznNZ2oXIvdTubpE8tZpmkCD+EEk4qvRVbkl3TdQSweUzafaX8cqbDHdK2ByDlSjKynjqD0JFXL7xPe3d3p00UdvZppgUWcECHZFht2fmLEknk5JrGoqlOStboS4RbuzoU8XzQeJo9dtNMsLa8V5HcRiUpKzgglgznHU/dwKxLYW73afbpJY4CfnaGMOw+gJA/WoaKOZsFFLY09f1ZdX1FXgjMNpbxLb20ROSkajAyfU8k+5rMooqSi6mqzR6JJpkccSRTTCWWQA732ggKTnG0ZJxjrVKiigABwQa3dW8TjWria5vdF077XMoBuEacMCBgEDzduQAO2KwqKpSaVgOhuvGV9dW9yGtrRLu7gW3uL5EYTSoMcH5toyAASFBOKzdV1i41f7H9pSNfslsltH5YIyq5wTknnmqFFOU5S3f9f02GxstqtpaeGX0zTRM0146vezSoFGF+7GoBORkk5OCeOKxqKKjqAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAOQAyKG+7kZrqdXgtL3WNUt/swjkt4fNjuPMOTtA4IJ24wcDgdq5Srsmr3stqbd5soVCsQihmUdAWAyQPQmjoHU6F7XZo9/a2k1tJbQ2ygOtzGd7l1LMfm46YGfQVyNTRXU0EE0MT7Y5wFkGAdwByP1qGgOlgooooAKKKKAN3xN/wAe2g/9gqP/ANGSVkwfZ/s1z5/+t2Dyev3twz+meta3ib/j20H/ALBUf/oySsmBrcW1yJhmUoPJPodwz+maAIKKKKACum8AGH/hLLZGSQXT7xbShxsibY3LJjLDpwGH41zNW9L1KfSNUt7+02+dbvvUOMg+x9iOKYmVpMiRtxycnJptWL25S7ujNFaQ2gbrHAXK59fnZj+tV6lbFPcKKKKYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArQu9Pt7FTFcXT/bAgZolhyik87S27Oce2PeqKELIpIyAcketdhqc1xPLqktySdKlt91uT/qy5AK7f8AaznOOeuaHsHU569sLSyjRXupmuHhSXYLcbRuAON2/Pf0rOrpBHevZ3f9v2ipDFb7YpngVG3jhArgAt+ZGK5ujqHQKKKKACiiigDd8Tf8e2g/9gqP/wBGSVkwSQLbXKypukdAIjj7p3An9M1reJv+PbQf+wVH/wCjJKyYJYUtrlJY90kiARNgHadwJPtwCKAIKKKKACp7GOCW/hS7fZCzgO2cYFQVPYrA19Ct422AuPMI7CgCCiiigArQ0jQ9Q12aaLS4VlaCMyylpUjCICAWJYgY5FZ9dP4Ou7e1s/Ea3M8UJm0mSOISOF3sWXCjPU8dBSk7JsOqILnwN4itLiKC5sFjklkaIA3MWFZV3kMd2E+X5stgEc9Ku+HPCMn/AAmGjWuu20U1hfyMoaC6WWOQKDkB4mIyDjIzmu9utT8NX+qXCahf6dcRNrBmhWWZWiZhZqEZ+fubxgk8Z4NU9M1O1s18KrqmqaKLiHU5pbhLJoI44FMQA3eVhD/vD6Z4rldWdvu/H/IHZr7zzY+HNUeyhvY7Nvs91OYbYb13zsDjCJncwyQMgEZp+peGdT0NUn1a1X7OJzDIYLmOTa45aNihYI2OzDPtxXZWXiGxu9X0LxTe3VvC2lzC1urESbdkfISWGPOSoB+YL3XOOao63cXUei3+m28fhqG2vr2MlrPUTLJM2WxIN0ziNfUsF+8Pw0U53tb+v+G1LaTb/ruUPEegaTZ2Oif2LbX5u9XgSdBcXcbqm5iuzAjXJzjnI+lZup+Dtc0i2mnv7NUW3kWOZUnjkeFm+7vVWLLnHBIAPHqK6nXYo0/4Q+UX+myLp0EMN15WoQSGNvNyeFckgDnIyPepo9a06HUPHFxNeQSrNfQSwDzVJnVbncdnPzfL6dqUZS6d3+aX5E9Pkvva1/EybPwTPZeHdfuteskSe1tI5IALlS8Lsy/fRGypKno4H04rGvPB+u2GnveXdl5cUcaSSL50ZkiR/us8YbeoPqQK7e6uLO3m8ZapJq+nXMOphJLSJLtGknXzVfBQHcpA4wQD19DSeIda8/UNc1TRk8OfZtSs2RrmS+b7RIjKo2eSZeHGAP8AVgcelSqk73/r0/r7h2W3n/kcSfB+uC7NubNQy2ovDIbiPyvJ/v8AmbtmPxpF8Ia42lDUBZAQNAblVM0YlaIHBkERbeV98Yxz0rtJrzT38DHwUmsw/bIbYXn2o3SfZ3k3bjbB84wAcjnG4VPP4gWa/sda0OHw6DHpiwme+vmjlgKxlXjMXmjPcDCEHIqnUmr/ANd/6/4dCir2/rt/w/8AwzOGtvBut3VhbXqW0Mdrdf6iae7hhWQ5IwC7jLZU8dfan2OkwWOj3mraxB5whm+yQWxYhZJsZO4qc7VHPBGTjmrnie+guPBfhO2guYpXt7ecSxI4JiYy5G4DoSPWooydR+HL28HMumXhnkjHUxuoXdj2YY/GtYttSfr+dvyEun9dDKudA1S1VXlspPLaGO43x4dFjkOEYsMhcnjnvV9fAviFpni+worpMYAr3US+ZIBkqmW+cj0XPpXe+H/EGjNo/h21vbuzjN7D9kvjJIoMKQ+YYy2T8uSykZ64qheX1p4kutFvLbVLK1Gn6rcy3Sz3KRFEafzBIoYjflR/DnnFd8qNNOyf9XX6P+rM4vb1eqt/T/VHEWfhbWL6zmu4bRUt4JjDNLPMkKxOB0Yuw29QOe5x1qa38H6zPNKq20RSCSNHkN1EEZnG5VVy21yQQQFJPIrc1/WrK/8AB+r/AGS5jzd+I3uUh3AO0RQ4bb1xnH41V0zytV8CQaXFfWdrcW2q/aJVurhYQY2QAOCxG7GDkDJ56VEIQ5vu/S/5/gauc7X82XpPDVrD8SNSsLPQ49StLbhdPbUhbOcoDkFm3Njk4GfeuV0zw/qWs29xc6fAjW9sQJpZJ0jSLdnG5nIAHB5+g7iu+tJrWX4zXmsLqWnjT0dlNxJfRIGzBgFQzAsM8ZGa5iDZpvgfX9Oubq2+1Pc2pWOK5jk8wDeSVKMQwGRnGcd6TjHk5n/WpEJy2Xl/wTOXwlrTajd2TWaxy2SB7hpZ40jjU4wTIzBMHIxzz2rY8QeDLhNXtbHSLDY8elxXN5vmCpG2DvdndtqjI9QPSt/Xb+x1XT9U0yw1GxFxcWWnuhe5jRJPLGHTexChhkHBIPFTXeq6YEu9HS50vUJptHs4o2muStvK8JJZDIrrtPcZI5Az1xV+ygk49n99lL/gf1YhVqjtL+vs/wCb/q5wX/CJ619suLUWYae3t/tLIsyHfFjO9MN+8GP7uapXmk3mn2tpcXkQiS8j82AGRdzJnG4qDuAPYkDPbNdxbX7L4m0zUNWutJsbfQ7LekWmXokZlDNthDF23sT1AJAVucZrG8Yy2mta7aazFfxi21NEMke8O9kVwrIUHO0YyvAyKzlCKV13/wA/6/4dG0KknKz7f0v1OUqxYWF1qmoQ2WnwtPczttjjXqx/p9e1WvEGkDQtduNOW4FyISuJQu3cCoPTJx1o8PSXkOu28umXsFjdx7ninuJFRAQpOCW+XnpzxzzWULNq+xtO6i7Drjw7f20tukrWX+kOyI6ahA6blAJDOHKr1H3iOtaPiXwdPoviBdNtJYbrzHihixdRGR3ZFPKBsoNxOCwxjHJ607xNZ6bHpNpdr9ittXmlcXFpp90s8OzqJMqzBGJONobGBkAdK1NeaCb4kWWuw3tlLp891aMsiXUZZQFTO9M7kxtOdwGK1jCOz7r8TB1Jbrs/wOc1Dwrq+lwzyX8EMJt8edEbqIyoCwUExht2CSOcYwQehrHrX8WXKXnjHV7iKZZ45LyVkkVtwZdxwQR1GKTVdFi07StLvoL0XK6hEzlRGUMTKcMvJ554z7Vi7bo6I3tqULKzn1C+hs7RQ887iONSwXcxOAMkgCrsXhvV5rowLYyK+JSDIQiHyv8AWYZiFO3HODVXTLr7Dq1pd/8APCdJPyYH+leuat4k0KO38QQW91ZyLZ27fY9kinz2uNxkCnPzY3DOPSt6dOEoc0nbf+vzMKlScZJRV/6t/keZ3HhHW7XT3vJ7LbHHGssiCZDLGjdGaMNvUe5Ap6+DNcaC3la2hiS6jElv513DGZlIyNgZwWOCOByMjPWuw1C9sE13xJ4gGq2ctlqOltDbRpcI0zu6KoQxD5l2kHJIA4Fc141vYbwaAttcxzrBo8EbiNw3luM5U46H1FEoQjFv+uv+SFTqTnb/AC8l/mWvCPgu4vb+CfWLJWsJrWWdEa4VZGUI219gYPt3Ac4x+daUPw806YeF5EuLoxaooF7865jZoy67Pl4B2t1z0q9p93ZXXiXT9c/tawhso9F+zlJbpEkSQRMhj2E7uvOcYOevStLwv4j0mLVNMs73UbWOD+xrZxI86hYp4y3ykk8NtYjHWt1Tp/D5/k3+aX5HNOpV1ku39fdc8wXw1q0l1p9vHa5k1Jd9ovmJ+9XJGevHQ9cVdg8B+I7i3jnisE8uRBIrNdRL8pJAY5bgZGMnjPFddo11Y3d/4O1F9T0+2g0yJoroT3SI6MHbHyE7iDuHIGBzkjFTjWNM+x4/tG0z/ZNpHjz1+8t0WK9eoHJHpzWcaMOr6v7raGs69S7sv6vY4rTNFjv/ALdos9r9n1m1EjxOrkmRkzuiYZ29AcEY6d81l6Zo1/rDTrptuZzbxGaUBgNqDqeSM/Qc12EE8Q+J2t69HMj2FjJPO0yMCr7gVRQRwdxPFcxoGix67dXML3q2kkdu88YaMsJCoyVz/DxnmuR9/L/M7I6r5mRRRRQMKKKKACiiigAooooAKKKKACilAJIA6npW/qmk/wBnwyxR6fHKsKL5lwZiZAx/i2BuFzwMr+NHQDn6K6DUNINhbvGmnxzeXCHlnaY+YpI+8EDcKCccqenWufoAKKKKALcGl3tzCJYLZ3RujAdaqspRirDBU4I9K7rw1/yAIPq3/oRrirv/AI/Z/wDro38656dVznKL6EqV20a/ib/j20H/ALBUf/oySsmCaKO2uY5I9zyoBG2B8pDAk/kCK1vE3/HtoP8A2Co//RklZME6RW1zG8e5pkCo390hgc/kMV0FEFFFFABU9j9n+3w/beLfePM6/d79OagqexNuL+E3ozb7x5g56d+lAEFFFFABRRWxoWgNrtvqJhmZJ7SFZUiEe7zcuFIznj7wPQ1UYuTsiZSUVdmPRXcQ/DG986SG7v4oZIrryZHWMvGIxF5rSBuCcDjGOT3FUrfwZBqDaRNpepvLY6ldmzMs1t5ckEg9UDkEY5GG/Kr9jNu1v6Zn7ena9/6/pHKUV1H/AAidjca4ND07WHuNT+0i3ZWtNkJOTvKvvJIXB6qM9q6rw/pelxaKlnaXZ1O2PiK3ilFxaiMNgMD8u5gVI6Z/ECnToub/AK7pfqKdeMF/Xn/keW0V6rq/hawn/tlrS2t7eHUJbE2siQqfsxeVo5Avp8ynIGOwrlrLwR9s1TVrP+0Nn9m30Vpv8jPmb5vL3Y3cY6459M96PYzbSXUFXg02+lvxOToruLz4eW8GnXFxbay88kUNxKsbWewN5D7ZBnecDkFTg57gVkf8ITrX9hrfDTr8zNcGL7KLN9wXaDv9cZOOn41nKEo7mkZxn8Jz1Fbt/wCENWsNHtb6SxvcSq7TI1q6/Zwpx8x7ZHPOKoC0sTohujqQF8JdosvIblP72/p+FSWUamtL26sJ/Osbma2lwR5kMhRsHqMioaKAAnJyeTRRRQAUUUUAFFFFABRRRQAVYsr2bT7tLm18sSxnKmSJZAD64YEZ96r0UASTzy3Vw89zK8ssh3O7tlmPqTUdFFABRRRQAqsUdWGMqcjIBH5HrVm/1K71OZZb2XzCiBEVVCKijoqqoAUewAqrRQAUUUUAFFFFABRRRQAUUUUATm+uzYizNzMbVW3iAyHYG9dvTPvUtvql5aWM9pbSiKK4GJSsah3H93fjdt46Zx7VTooAKKKKACiiigAooooAKKKKACiiigBVYqwYdQciuiutTsmur/UUud8l5b+WLbY25GIAOTjGBjsT2rnKKA6nRzanZyXdxqf2nMs9p5X2XY24OU2nJxjb3659q5yiigAooooA7vw1/wAgCD6t/wChGuKu/wDj9n/66N/Ouz8Nlv7BgwFIy3U/7R9q4y7/AOP2f/ro3864qH8WZnH4ma/ib/j20H/sFR/+jJKyYLhYra5iKbjMgUN/dwwP9MVreJv+PbQf+wVH/wCjJKyoLkw2t1EE3CdFUtn7uGDZ/TFdpoV6KKKACp7FoEv4WvF3QBwZBjqKgqexkgiv4Xu03wq4LrjORQBBRRRQAV0fgbxHbeGPED3l9FLLbvA8TJEAWJOCOpA6gVzlFVGTi7omcVOPKz0KL4kW4s9FhubaebyY5otSJwDMHUIGQ55IX1x0x71RsPFWkaMNEtLBLye0sdQ+3XM8sKRySNjAVUDkYCju3J9K47yZRAJjG/lFtofadufTPrQ8MscaSPG6pJkoxUgNjrg9609vLm5uv+Wv6GPsKdrf11/zNjTtfXTPGya5FE0iJdtMI2OCVYnI9jg10Gn+KfDmi2kNvp66nMq6tFfO00Ma4Rc/IAHOSARznn2rjb2wudOmWK8i8p2QOBkHKnoeKWbTrmC1juJlREkUMgMq7yD0OzO7Hviop1uRLlfp+H+Q5QhPVvf/AIP+bO1j+IVonhWfT/s07XS6kLq2baoXy/OEu1jnIOc9AetPh8ZeHbK91O7tU1OWXUtQgvHEkMaiIJMJCgw53fxc8duO9ee1OLOc2TXezECts3swGT6AHk/h0q1XlGz7f1+gnQp6+Z28njrTHsZoRBd7pLfUIgdi4zcSBk/i6ADn9M1yJ1XPhpNJ8n7t2bnzd3XKBduMe2c5rPoqJTclZ+hrCChsX7zU/tek6fY+Ts+xCQb92d+9t3THGPxrTk02ztvAn2m+snt9RluVNrK8hBnixyQn90cfN3J61ztTW1rNeTGK3Te4VmxkDgDJ6+wqHazK21ZDRU/2K63RL9mmzMu6IeWfnHqPUfSoKV0wumFFFFMYUUUUAFFSwW091L5drDJNJjO2NCxx9BRBa3F1MYraCWaQDJSNCx/IUroV0RUVNHZ3M1ybeK3ledSQYlQlhjrx1oWzuXujbLbytcAkGIId+fp1ouguiGipvsdz9r+y/Z5ftGceTsO/P060NZ3K3X2VreUXGceUUO/P060XQXRDRVldOuzeraNA0Vw3SObEZPp97HX9arujRuySKVZThlYYIPpRdMLpiUVLa2015cpb2yb5ZDhVyBn86ip36Dv0CiiigAooqW6tZrO5e3uU2Sp95cg44z2ov0C/QiooooAKKfFFJPKscMbSSMcKiLkn8KI4JZWZYondlBZgqkkAdSaV0K6GUUUUxhRVmDT7m5tZriBUaOEbpP3qhlHrtznHPXFVqV0xJp7BRRVixsbnUboW9lF5srAkLkDgdeTQ2krsG0ldleigggkHgjrRTGFFTTWk8DRLLGQ0yLJGAQdynp0q2NB1AyCPy4hMRkQtcRiTpnGwtuz7YzUuUVuyeaK3ZnUU50aORkkVkdThlYYIPoRTaooKKKKAFRd7qo7nFdVq8DLJe2FjqEiJZwgmzCbYygxk5zy3OTkde9cpWxPrqyi4mS1KXlzEIpZvNypGACQuOCcDuaHsHUs2Wo3ieH9Qubu8uJVdRawpJKzLluScE44UfrXPVcuL/wA7TLWzjj8tICzMd2d7N36ccACqdHUOgUUUUAd34a/5AEH1b/0I1xV3/wAfs/8A10b+ddr4a/5AEH1b/wBCNcVd/wDH7P8A9dG/nXFh/wCLMzj8TNfxN/x7aD/2Co//AEZJWVBcPFa3USpuWZFVm/u4YHP6YrV8Tf8AHtoP/YKj/wDRklZUE8kdrdRpHuWVFDtj7oDA5/MAfjXaaFeiiigAqeylhgvoZbmPzYkcF0xncPTmoKnsZ47a/hmnj8yNHDMmM7h6c0AQUUUUAFABJwOSaKsWFylnfw3EsPnLE27y92NxHTnB70nsJ3S0NHVYW+1WOjQYLW6hGHrK5y36kD8Kj1q4j/tYQxKstvZqsCK2cMF65wQeTk1BZ6m1tqcl/LH507B2U7sbXbPzdOcZziqkUgSYSSRrMAclJCcN9cEH9azjFp6/02Zxi09ei/4c09bgtrLUrc29sixvbxStEWYqSRkjOc4/GrPiieJpraNbSGNjawsJFL7gNv3eWxj8M+9Z+paqdT8syWlvC8aqgeLfnaBgDliP61DfX0uoSxyTKimOJYhsBHCjA/GpjCXut9CYwleLfRFauj1NIV1/TLCRN1pFHCmwkgENgscj1zXOVpXGoQ3djbNL5i3tqojVlUFZEByuTnII57HPFXNNtMqcW2reZsnw3bW6yyP85jjmMiM5wjZ/d9MH8zUFzp2n/atS0+K18t7GAyJcb2LOVxncCcYOewFUbjxHe3Ivg4iUX2zzAqkbdvTbzx+tNn164nimBhgSa4QRzXCqd8ijsecDOBnAFYKFXq/6/q5koVb3b/rT/glm/XTtOhsAunpO89qksrSSuOT/AHcEYPHfI6cVoWUFpYaotnFbgy/YGdrje24u0RJGM424OOmfeubvL6S98jzVUeRCsK7QeVXpn3q7D4huIVU/Z7Z5hAbfz2Vi5TGMdccDvjPFVKnJxt69Rypy5Uv1OpskF0NLA/1lnBFJ0/geMqf1ArCh0uzfU9EiaHKXUAeYbj8xy3vx0HSqdr4jvLO6jniSEslsLbaynBUdCeetFp4huLRbYrb20ktqCsUsisWVSc4647ntnnrUeyqRbt/W5CpVI3t/X9M1bfTdNFjG0liskgtI5yxlcbmaQoQQD078Vz+q2yWmr3dvFxHHMyqPQZ4qwuu3SwiMJDgQpB0P3VfcD165qleXT3t7NcyhQ8zl2CjgE+la04zUm29DanGak2y/Y6P9stFm8rUmySM29j5qf99bx/KqF3B9mupIcSrsOMTR+W/4rk4/OoaK1Sd7tmiTT1Zs+FbiZPEFpCkrrFJIN6BiFbAOMjvVrTrdZNB1F2lMKfaUE8g6rGMnA9STgAeuKyNM1FtLu1uY7eGaVDlDLu+U+2CP1zUkertE1wFtLfyLgDzLc7yhIOQc7twP41lOEnJteX4MxnCTk2vL8Dqb6FLy0vLpG+zm4trZpnPJROS2T3JCj6nFFzCl9az3Fu3kNNYQhpH5Kx7yGYnv8qjPrXMf27ctc3Ek0cMsdwgR4GUhNo+6BggjGOMGl/t25N1JK0cLRyRCFrcqRH5Y6KADkY9c596x9jNbf15GSozX9en+R07RJe2P2m1LRSPpojDynkIJNpdj/ujmkiijvLKCayLLKNPlhikk4O1XC7ye3BP0Fcx/btyLzzvLh8vyfs/2fafL8v8Au9c++c5z3oGu3K3ccyRwrHHEYFtwp8vyz1Xk5OepOc+9HsZ/1+Qexn/X5F3XWgfRNKe2ZmEfmQrIw5dVI59hknA7VD4ixJJY3R/1tzaI8vu3Iz+OKqyX0d9PbpeL9mtIV2rHax52jqcbm5JPcmmapfnUb5pgnlxqoSKP+4gGAK2jBpr5/ibQg015X/Flnwx/yM1ln/np/Q1ZitLG/s4biK1EBW+SB0V2IkRumck88dsdaybC9k06+iu4ArSRNuUOMirMmsyssSxW9vAkc4nKxq2Hcdzkn8hgc05Rk5XQTjJyuv63LtxBYSa++k21kkaG5EKzmRy4+fBPJ29Mjp6c1NqGmWRhulghtoJoZlS3WK8WR5wW2kFdxweh6CsKa8ll1B73ISZ5TLlP4Wznj8atTauZWaRbK1huGcOZ41bduBzkAsQOfQCp5Jq1mDhNNWZpX+mWYsNQKpaRXFmyfJbSSsVy20q5f5T16r3FT+JLa1t5Ly7eMXM80ojX5iFt/kBycEZY9h04/Csq51+a4trqEWtrELxg07Ro252BznJJxz2HHJ4pj65cSXN3LLFDIt4oWWJlO3joRzkEfWpUKmjf9bEqE7pv+tis89q2nRQpabLlXJe480nePTb0H1qtWteX0Q8PWumpOtwySmbcqFRGCPuZIBJzyT/Osmt49TaOxraV/oenXupHhlX7PD/vv1P4Ln86Lb/QfDtxc9Jb1/s8frsGC5/PaKq3F/5um21lHH5aQlmY7s+Y579PTAovr4XcdtFFEYoreIIqbt2TnJboOSajlbevV/giOVt69/y2NO00u0vP7MuNnl2xDi8wxPMfzE9eMrjpU2n2FlcfZftNraQR3srCPzJZjKV3YG0LlRjOBu6kVj22q3FrptzZRbPLuMbiR8y+uD7jg1Ys/EFxZx2wFvbSvaE+RJKpLICckcEA/iMjPFTKFTWzIlCpZ2f9aljSovJj12IHIS1Zc+uHFR2trawaPbXVxardPdXJiwzsNigDONpHJz3yOOlVLXVZbW4upPJilW6UrLHIG2kE57EEdPWremarBbRlZpZok8/zfIit0lUem1nOUPUZGT09KHGSu/QcoyV2v60Ltzp+nWa61K1p5gtLlEgjMjAYORg4OSO/rx1qpowstR1yOCXToVimUgqJJPkIUnKndnnHfNVrvWprr7cvloqXswlYckrgnAB/H0qPTNTOl3AnitYJpV+68u/5cjB4DAd+9ChPkd9/Xy/zDknyPv6ljTobQaNfXlzbC4kheNY1Z2VfmznOCMitC60ywsku702wkjWCB4rdnbarSDJyQQSBg96xW1Fvstxbw28MMVwyMypuO0rnGCST371YOvXDswmgglieFIXiYNtYJ908EHP0NEozbuv62/4ISjNyuv62/wCCX9SDvqumz2AhiMVpDKizzKoGOQMsRmr7WOkSeIFuHMOxyJZJBqcWwPjJGz72N3H3q5251ZrzUbe6ureFlgCL5KLtVlU9O/0rUOvxm9Fwmq6rFEGDC1SNdij+4PnAx2+7+FRKE0l8zOUJpJeRk6sbmW/kubxoGlnYufImRwP++ScfjVGrF9cR3d9NPDAtukjbliTontVeumOkUdcdgoooqhhVttMuktRO6IiFN4VpVDlfUITuI98VWQAyKG+7kZrqdXgtLzV9Vt/swSS3h82O4Dtk7QOCCduMHAwB260dA6mC+j30dsZ2hwgQSMu9d6qejFM7gPfFUq6+cq2pahAqEaj9hKyTE/u2wgLYXqOOM5Iz2FchR1BbBRRRQBoWuuX9lbLBbyqsa5wCgPU5qi7mSRnb7zEk02ipUYp3SFZG74m/49tB/wCwVH/6MkrKglmjtbpI49ySIokbBOwBgQfbkAfjWr4m/wCPbQf+wVH/AOjJKyreSdLW6WJN0boolOPujcCD+eBVDK9FFFABU9jcJa38M8kfmLG4Yp61BU9jcizv4bhk8wROGKZxnFAEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVdk1e9ltTbvNlCoViEUMyjoCwGSB6E1SrQu9Pt7JTFcXT/bAgYxLDlVJ52lt2c49se9ADZNZv5bcxPMCGjEbP5ah2T+6XxuI9s1RrXl0NY1niS633ltEJZYfLwuMAkBs8kAjsO9ZFAdAooooAKKKKAN3xN/x7aD/2Co//AEZJWVA062t0IVzEyKJjjoNwx+uK1fE3/HtoP/YKj/8ARklZUBuBa3QhH7oovndOBuGP1xQBXooooAKnsbr7Ffw3ITf5ThtucZxUFbnhGGzvfEVrYahYxXUV3KsZZndWjz3XawGfqD0ppXE3ZXZh0VLdQi3vJoVORHIyAnvg4qKpTurlNWdgooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAHIQsikjIByR612GpzXE02qTXBY6VJb7rcn/AFZcgFdv+1nOcc9c1xtFHQOp1ZuGSG+1G+0+S1mntfKMsj/LKzAAbFx3xk8ngVylFFAdAooooAKKKKAN3xN/x7aD/wBgqP8A9GSVlQfaPst15H+q2L53T7u4Y/XHSug1y1tLjSNHnk1KGCVNLULbvHIWkw8nQhSoyeOSK5+Bbg2t0YTiIIvnD1G4Y/XFAFeiiigArY8I26XfjDS4ZAxVrlM7SQeDnqOR0rHqzZ6lfaeJBYXtxaiUYk8iVk3j3weetNOzuKSurE+u30moa5dTyiEEysB5MSxgjcf7oGT7nk+tZ9FFSlZWKbu7hRRRTEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFbmnXJvrbUUuYLUiOzZ0K2saFWBHOVUHvRRR0fzDqi9PaW39jToLeEeXp8E6sIwGDseTu6n6E4rlaKKH8T/rqwW39dkFFFFABRRRQBs6//AMeeh/8AYNH/AKOlrJSV445ERiFkADgfxAHP8xRRQAyiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/9k=)

이제 while 함수를 이용해서 words.txt 파일의 끝에 다다를 때까지 한 줄 씩 읽어오고 그 읽어온 단어에 대해 makeIndexer 함수를 이용해서 처리해주었습니다. 그리고 한 번 읽어올 때 마다 wordNum의 개수를 +1 해주었습니다.

If (wordNum = 100000) break; 는 valgrind로 메모리 누수를 확인할 때 너무 오랜 시간이 걸려서 임시로 확인하기 위해 추가해주었습니다.

1. **makeIndexer 함수**

이제, makeIndexer 함수를 살펴보겠습니다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADk3LTIzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMjoyMiAxMDo0MjozNQAyMDIwOjEyOjIyIDEwOjQyOjM1AAAAOQA3AC0AMgAzAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMTItMjJUMTA6NDI6MzUuNzM5PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPjk3LTIzPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAPUDWAMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6KkgkWGZXeJJgp+5Jnafrgg/rWvrbJbazBLBb26lreN9nlKE3Feu3p1OaAMSit3UQbbTLK5ljtPtjSPhoIo2jZB2YKNhOfxxjNN1N1Hh+y8+KAXVw7S7o4EjKxjgD5QOpyfwoAxKKKKACuv1LXtOuNJnginJkePAGxhk/lXIUVlUpRm030JcUwooorUoKK1tKzZabe6l0cL9ngPT536kH1C5/Oi3zYeG57jpLfP5Cc8+WvLn8TgfnWbnrYz59bfIyaK6X/hFUkuA0MsnkNJCFVsFmVwu456cFx2qMaNpyXVpazSXHmXxYxurriJSxVNwx83I5wRU+2h0J9tB7HPUqqzuFRSzMcAAZJNbJ0yytNGW8vvPklNw8BiidVBK45yVOO/Y9ulTWdlpsD6fdP9qP2q5IgAdf3aqwGW4+Y59MU/aroN1UldGIlpcSSSRpBKzxAmRQhJQDqSO2Kiro4kSXWNbVZLqGZFuJA8M2wMASdrDGSD9ao2llYDRft179odvtPkiOF1XI2g5yQff/AOtQqnfy/EPadzKp8sUkMmyaNo3AB2uuDyMitu60Wz037dLeNNLHBcLBCkbBGbI3ZJIPQe3X0rQ1DR1vdSv7sxXV1HAkCRxWy4dyY15JwcAAeh61Pto38v8Ahv8AMXto38v+G/zORpyI0kipGpd2OFVRkk+grffw9ANWfTt08c88Ky2nmcYJGdjjHXgjPHSq4tPsuvRppNvc3z2Tq020E72UjOABkDPHOapVYvYftU1oY7o0bsjqVZThlIwQfSkrobjT2ubmWd/DusBpXLsBJxknP/PKse+s5rSb97aXFqj8olwDux9cDP5U4zUtCozUitRUtvczWk4mtnMcighXHUZGOPQ89a3NWjnm03Tbe+kD6k++QvPKAyRnlVZmP1IBPGacpcrSCUrNI56itSz0OW41K2tpZYAsz7SYriOQgYyeFY9hU/8AZ2nXNhFc2guo916tuyyyK3ykE5yFHP8Anmk6kUxOpFMxKK2NQs9MtNRmsIVvJZY5diyB1IY7uRs256ZGc8ntV0+HbdzwstuY7mOGRGu4pmKu2OiD5CPQ5/Sl7WNk+4nVildnNVPbWN3e7vsdrNcbfveVGWx9cVvT6Dp4s5Hga5Egimdd7qQDE2DnC989O3vUcMti+kR6ffX9tJFFIZIzC80Zyeu7MTA+3GRS9rde6he1uvdRh3FrcWkgju4JYHIyFlQqceuDUVbuozWsmkxWVpfWwgt2aRUdppJGY9gTGoA9sD1JrCq4Sclqi4SbWoU9YZHieVI3aOPG9wpIXPTJ7VvR6jnQrC3tNa+wSQiTzU3TLnLZH3FIPFOhube30jVGuLy31OaYxErI0g3kMfXaxIHPFQ6j7f1cj2j7df1Ocp6RSSK7Rxs6xjLlVJCj1PpW0tzNpfhu0n092gmup5DJLGcNhcYTPpznFac9tD9q1fDR2yz2MUrkg7UZipPCgnr7d6Tq26CdW3T+r2OVtrS4vJClpbyzuBkrEhYgeuBU8mj6nFG0kunXaIoyzNAwAHqTirujyWlp9rFzeW7JcRNAV3So2Mg7gRGw7d6sXmkaTaxoJLhYnmiEkRa5dhg9CQLf9Mg05VGpWt+A3UalaxztFPlRY5WRJFlUHAdAcN9MgH9KsWFvqEkpl0uK6aSPq9srEpn3Xp3rVuyuat2VypRXW6EPEh1y1+2f2r5AfL+aZNuAO+eKwGtbwattkU2dwzeYDOwh285zlsYrNVLyt+pmql20UaK7O01BrK3m8zXLu4uHBiS6fzGtIn9M5yTjvjAznmuYYPpuqbnMN08bbgyTFlY9iGRgffqDRGo5NqwRqOV9CtFDLPII4I3kcgkKiknjk8CiSGSHb5sbx71DLuUjcD0I9q7hIn/tnT3vMw3n2SV3SSSV92VbCqWLY2gc5I61zniH7+nf9g+H+RqI1uaVrf1r/kRCtzytYx6KKmtIo5ryGKeXyYncK8h/hBPJroN27K5DRWpqdrZ2UwRbW8Rd+VaSZWWaP+8pCAc+vIqz4hFn9otY4IJY3NtCQTKCoUqOMBRz75/Cs1Uu1Zbke01StuYVT21jd3u77HazXGzG7yoy23PritLWLLTNNv7ixiW7llj4WQyLt3HkArtyfrkfSri2d3c6Jb6feadqtv8AZ3Z1aG0Miybv7ykrgjscnjNS6i5U11JdTRNdTn7i2ntJfKuoZIZMZ2SIVOPoairoNWhuzpFtaR6dqHkWe5zcXMBU89RjkKox6mufq4S5lcuEuZXLFtYXl4rNaWk86r94xRlsfXFRLDK8bukbskYBdgpIXnHPpXQWcD6xo9lBayTQNZSN5myCRwSTkOCgPzducfWp72SR4ddupLK6t4rpIxG0sDDcQ65JOMAnGevWs3Valb+t/wCmZ+1d7f1vb/gnK0+OGSbd5UbvsUu21SdqjqT7VtC5m0rw1YzafK0EtzNI0siHDHZgBc+nJOPetNrKC21DVpIZoUMumtIbZFYMhZVJ/h2gZ7Z7ih1bdO/4A6tun9XsclFFJPKsUEbSSMcKiKST9AKmuNNvrOMPd2dxAhOA0sTKCfTJFafh9buFLhk068mguojCZ7aIlk55KnGD0wRx9a0W0m40O2uYbS21C/e9tgpAtikaA884LZYenGMnmiVXllb+v+AEqtpWOSop0kbxSNHKjI6nDKwwQfQitrQZ3i03VEtrpLa5kSPyiZxEThucMSO1aSlyq6NZS5VcxooZJ5VjgjaSRuiIpJP4CmV1Oix6hJ4jsZdRvUuQjEKDfJMwyp6AMTVLRxbG+vbq2iZDa2jzQrM4kIcYAb7oHGc9Kj2u/kZ+01fy/EwwCSABknoKfLFJBK0c0bRyKcMjrgj8K341Oq6JBd392iTwXflLPPvZnUjdtJAJOD0z0zVPxR/yM99/11/oKcal5cvr+g41Ly5TJoorQ0rT01EXSfP50cPmRBSME7gMH8DWjaSuy5SUVdmfRXTr4UhSRknuHKrNjzVAAMYj3scevbrVSDSbK+FhPbGeKGe7FtLG7qzKTg5DBR2PpWSrQexn7aDVzDp4ikMLSiNjGpClwpwCegzWuNO0+41YaZafaRN5wiE7upU4PzHaBke3JrU0wWQtQNPEwRdUgX964YsATg5AHX0/WiVVJXSFOryrY5Giu2vrVLlL+fkRXzwKxXswlKN+PGfxrGg0S2l1DUYGeXba3KRIQRkgy7DnjrilGspK7/rb/MI1otNvoYVTW1ldXjMtnbTXBUZYRRlsflXQT6Bp4tZWga6Eixzld7qRmJsHOF756dvU023tbubQV06603U4VWUzLLb2pcSZH8SnHTsc/hR7ZNXQOqraGBcWtxZyCO7glgcjIWVCpx64NRV0OoW14mhRWEGnak8MMhmae4tym3g5AUZwO/Xr6Vz1aQlzI0hLmVye2sru9LCztprgr97yoy2PrimLbzOZAkUjGIEyAKTsA6k+lbdjE2r6HFY2zSRSWsxkk2wyOrhujfIpIYYxyPxq/cPK1zqt1JZ3kcL2JgE0lu48x1wCzccZwetZuq02rGbqtO1v6v8A0zkafFDLOxWGN5GALEIpJAHU1swTSad4VW6sZGiuLi6MbyxnDBVUELnsCea14LWL+1jeCaGOW501pntwrBtxjOT93byeetEqvLfQJVrdP6Rx0cbyyLHEjO7HCqoySfQCrFxpl/axebdWNzDHnG+SFlH5kVoeHRdwTyXEOn3lxDJG0LS20ZLR56lTjGRWrFpM+hQvJa22o3z3lsV8r7IURA3GHwW5Hp+tE6vK7f1/wAlVtKxyFFPlhlt5WinjeKRThkdSCPqDWx4cnMK6iIrlLed7UrEzTCLLbh0Ykc1rKVo3RpKXLG5jRxvNIscSM7scKqjJJ9AKRlKsVYEMDggjpXSaampS65YPqF+lwkdwhCtfpKRkgcAMTTNPS1l8T3UsULAW8c0ypM4fc65IP3Rx3x7dazdW1/Qj2trnO0+WGSCQxzxtG46q6kEd+hrdQvrPh+abUrxVltrhQlxcbmOGByuQCeozjtRrQgHjYC7INvvh8w9iu1c/hTVT3uW39af5gqmtrbX/AEOfp8kMsSoZY3QSLuQspG4eo9RXVXH27/ibf2tu/s7ym+zeZ/q93/LPyu3T+7261l67/wAeekf9eS/+hGlGrzNL+tgjU5nYxqKkgMa3MZnBaIOC4HcZ5rqZrwfar17q+gm0l4WEFukqnqPkCxZyhHHOBjBqpzcehUpuLtY5VoZEiSR42VJM7GKkBsdcHvTK19R/5FrRv+23/odaurTy3F/OWvvP05o1xFDqkaDhRn5TnPIPG3rU+0/X8GT7R9u/4OxzMtpcQqzTW8saq2xi6EYbGcfXHOKhrrfEv/IPvsdP7RT/ANE1m6SsGkGPVb2aN5EG63tY5AzO2OC2PugZ788dKUat4c1hRq3hzW1MSitPUrKBlN/p9xHJbyHLRPIBLEx/hK9T9RWZWsZcyubRkpK6CiiiqGFFFFABRRRQA6MRmVRMzImfmZV3ED2GRn8619Su9Lv7yGTzbwIsKxN+5UEbVwGHz889uPrWMASQAMk9AKnayukuhbPbTLO3SIxkMfw60AXLm8tBpUWn2hmdPO86SWVApzjGAoJ7e9Ravex39+ZIFZYERY4lYYIVRj/E/jVeezurWRY7m2mhdvurJGVJ+gNFzZ3Vmyi7tpoCwyoljK5/OgCGiiigAooror3wulpp8tyLpmMabtuzGf1rOVSMGlLqJtI52iiitBl68vYpdOs7O2VlSFWaQsMbpGPJ69AAAKNTvYrk28VqHW3tohGgcAEnqzEAnqSao0VKikSopHQW3ip7eSzb7KG+zW7QnMn3ycYbpxjav5VXttdSJLN57TzrixBEEnm7V9RuXBzg+hFUI7LzNNlu/tNuvlsF8lpMSPnuF7iksLOTUb+G0hKrJM21S5wAfel9XjeyWr/r9TLkppNk1xqbXOlRWbx/MkzzGTd94tjtj2qez1eGG3tY7uzNw1nIZISJdg5IOGGDkZGe1ZbKUdlPVTg0lHJG1jR04tWNi21m1hvL25ls5nkuxIpC3AUKr9vuHkev6VVkv4/7NNlDCyx/afPVnk3EDbjB4Gfr+lUa0Bo1wfDba0Hi+zLdC0KZO/eULZxjGMD1pckY6goRuWrnXor2a6+2WTPBcSrKqJNtZGVdv3tpyCPakuNejvJ7oXNmfs1yIyYo5drIyKACGIPbPBB61jVo6LoOoeIbz7LpSQy3H8MclzHEz/7odhu6ds0vZwX9f12F7OCHRapb2f2htPtHglliESSNNuMY/iPQcn14xSvqNvfa1aXd3CE+dPtRJ3LJgjLbccZHUc1TvbKXT7t7a4MJkT73kzJKv/fSEg/nVemoR3Q3TSNS7s7KW8mkg1WySJ5GZF8uYbQTwMCOs6VFjlZElSVQeHQHDfTIB/SruqaLcaTb6fNcPEy39sLmIRkkqpJGGyBzx2zWfTirLe5STXUtabdxWOpQ3M9uLlIm3eUW2hj25we/NP1K8gvp2nWO5E8jbpHmnWTd+ARcVSop8qvzdRcq5ubqWtMuGtdTgnSZYCj58xlLBfqB1Fa15qlpDp9vBai2d1uxcutqkioMDGMvzk/kK5+tePwzfywWzJ5Xn3SGSK1L4kaMAnzOeAvBxk5PYUpU1J8zInGN+aTK0mpu2utqccYR/P8AOCE5AOc4rQXxDbQ+b9m04oZrlLh2afcSVbdtHyjj/PNZdnpl5qEc8lnCZVt1DSYIyATgYHU88YFWrjw3qtsAZbZTmUQnZMj7HPRW2k7T/vYodOLsrES9jflk195M3iHdA0f2X70c6Z8z/no2c9O2Px9qt6bqkNrotvFDfRwzh3MqTTXSjGflwIjj1zWbeeHtSsUkaeGMiJxHL5VxHIY2PADBWO3kY5xS3vhvVNPhmlubdNsBAmEc8chiz03BWJXPvUujG1v6/rUT9jKyUlr5/wBdyzreqSXunxwNeWk6pLvAia4Z8kY6y9vYGsKtKTQb+LTBqDi3+yt91xdxHJxnAAbJPPTGaWXw5qsF0lvLaFZZIDcKPMXmMAknOcdAeOtXGCgrIqE6UVZSX3/eT6LfJbaZqEK3/wBhuJjH5cnzjoTnlASOKnm1H/iQX1td6z9vlmaMxJmVsYbJ++oAqm/hrVY7Yzm3QqIRcFFnjaQRn+PYG3Y564pq+HtQNtDcOLWKOdN8RmvIYyy+uGYGpdJOV3/X9WIvRb5uZb90RWmqPbWptpIILqDf5gjnBwrdMjaQenbpVmHVfOj1aW+l/f3cIVMLwTuU4GOnA/Sq50TUPOs4lt973wzb7HVhJzjqDgc9c9O9U5oXt53hk2742KttYMMj3HB/Cm6cWa2pyej/AKv/AJo1PD13b2d1cPcXHkMYCImLyqpfIwCY/mx1rTk1yRraeP8AtKwYSxNGwaS9fgjHAfIzXK0VMqUZO7B0ouXMwooorU1NO4u4JPDdlao+ZoppGdcHgHGOenaqVs1srn7XFLKuOBFKEIP1KtUNbU3hi5ttX07T7q8src6hBHcJPNKUijRxkb2I46c9alRsrdyFFJW+Y3+1dO/sn+z/ALBdeV53nbvta7t2Mf8APPpVWK/hsrxbjTrUqyqQv2lxLsb+8MKoyO2Qagvbb7FfT23nQz+TIyebA++N8HGVPcHsagpKEfvD2cVobmia7LBequoXJNt+8cl13kOyEZBwSMk84qHUpotQutPS1eNjHaRxN5jbFDKDkEtgVFfaLcafpOm6hM8TRaijvEqEllCNtO7jjn0zWdS9nFS5luL2a5uZGlr81pNq7tYJEkYVVbyF2oWA+YqPTNUbd447hHni86MH5o9xXcPTI6VHRVRjaPKUo2jymjcalC2lDT7O3kih87zmM0wkbOMcYVQB+HNF7qMN7HA7WzpcxRpGXEvyMFGB8u3IOMd6zqkt4WuLmKBCA0jhAT0yTiiNNXVtxcsVqT6pff2lqk955flec27Zuzjj1qx9n06fS7TZeQW10N/niVZTu5+XG1SOlUbq3e0vJreQqXhdkYr0JBxxUVHJZJLSwcqsknsWbm2igQGK+guSTgrEsgI9/mUVWooprQpGzosunwW0k05t1vo5kaA3IlKgDk/6vvnHWlF9CsGtrLcRyS3YUoYlfa7bwxAyARjnrWLRUOmm7tkezV73L1pqj21r9mlt4LqASCVY5w2FbpkbSDz6dKs2Oq77rUrjUZv3tzaSRhtv3mOMDgcdPpVBbC6fTZNQWFvskcqwtL2DsCQvucAn/wDWKr03CLuN04s0NMSwkhu0v5UikMY+zu4cgNkddoPbPamPY26Rsy6raOQMhVSbLewzHiqVFPld73Hyu97hV7RZbSHWbeTUQhtlY+ZvTcMYPUYOeaisbL7dK6C5t7fZGX3XEmwNjsD6n0qtVSjeOvUHaScTVtoksrtLm11qyjlQkq3lzHH4GOqdney6feefAVYjKsGGVkU8EEdwRUcFvLcuywRlyqM7Y7KoyT+QqKp5O/UXKtb6l6bU3uBbwiOK3toX3LFEDjJPLHJJJ/Grt1NDqHi+W5t3t3gMwk3XJ2IVGM5DYz9Op9KxKKXIr3X9XF7NdC3qsttNq1zJYoEt2kJjULgY9h2+lSaNqh0jUBciLzRsZSm7bnI9friqFFPlXLyvYpxTjys24vE00UOnxiBWFp5gk3N/rg/BB9OOO9Rx63FbGyjs7Rkgtbj7QVkl3NI3HVgoAGBjpU+n+DNX1ay0+fTY4rhtQkljhhEgVsxgFiS2FAwfWs+40XULXT3vbi3MdvHdNaMxYZEqjJXGc9O+MVPsoLp/X9Mn2UH0/rX/AIIyLUJINXGoQqFcTGUKeR1zitCPXbW2jEdnp7Rr9qS5O6fccrn5R8owP881iU6NQ8qqzrGGIBds4X3OAT+QpunF7jlTjLc2R4kkGlz2Yg5kufPjkL/6v5g23GOeR7U//hIrdJbiWDT2SS6mSaVmn3cq4bA+XgHn161nappdxpN0IbjY6ugkimiO5JUPRlPcf5NUqn2UO39f0ifYw7G23iLdE6fZfvLcLnzOnmkH07Y/H2qvHBps+kQj7XDbXgkbzTKJTuXjbjapHrQ+iSRaFDqlxd28KXBcQQtvMku0gEjClRye5HSsyn7NLRaD9ml8OhZuLWGGPdHf29wc42RLID9fmQCq1FFWtC1oaujPp8cdw96YBcKUNubjzdgOTuz5fPp1qyuowi91ea5uYXe8tnCtAj7S5IOBuGR+NYNFQ6abbbIdNNtsuWmpPa20ls8ENzbyMHMUwOAw/iBUgg9utXtP1gPrFxeajKF8y3kjXapwMrhVAHQdqxaKcqcZX8xunF3L2lrYvJcLqLrGDAwidt2Fk4wTtBPr2oNhbBSRq1mfYJNz/wCQ6o0U+V3vcfK73uFW9Kkt4tWtXvQpt1lUyBl3DbnnI71UoptXVhyV1Y1xDBBqP2qz1iyiZZC8X7uX5ecjjy8VShvZ7LU/tcEqtKrk79vyvnrwR0NVaKlQXXUnlXXUu3epvc2y20cENtbq5k8qEHBb1JYk9OOuKsaxf21xr8t1Ckd1CVQBZAyg4QDsQeorKoo5EndByK9y/wD2hbf9Aiy/77m/+OVLrN7BeQ6eLcjMVsEdFBwh3E4569fesuijkV0w5Fe4VryR6fdaTYrHeWttcRK4n8yKTLEtxyqHPFZFFOUb2HKN7F29Yra29uL+C6ih3bFiRxsycnJZVzk/WmQajNbxCONLYqO8lrE5/NlJqrRRyq1mHKrWZq3F/BdaDslS3W9FyCPKtljPl7T3VQOtQCbScc2V5n/r8T/41VGikoJCUEtC5LLppiYQ2l2kmPlZ7pWAPuPLGfzqnRRVJWKSsFFFFMYUUUUAFFFFAD4ZpbeUSwSPFIvR0YqR+IrX8ROy6nbsHZSbSIFgecFOax43Ecqs0ayAHJRicN7HBB/WtG51r7VcRyzafZkonl4xJhlAwAcv29Rg+9AdTa0wgW+lf2duuYo7ty7zjYUbbkjAzgbRnOTyKz74wnw3ixlkuIRelnkmXaykrwAMng8857dBVVdduIjbi0igtY7dzIscakhmPBLbiSeOOvSobrU3uLX7NFbw2sHmeYyQhsM2MZO4k8enSh/1+AL+vxKVFFFABXoGsf8AIBuf+uVef16BrH/IBuf+uVcWJ+OHr/kZz3Rn2FvcS6RpkenjQ4WNq0ssmpC2RpCZ5FGGl64CjgdKi1y3mh0CYXo0eSeO6gKS6aIGAVlmypaLjqgOD7VQE2k6hp2m29zPfQ3FtE0JEVskitmV3BBMi/38dKNS+w6bpl3pEEl3JdC9RpRPAiBPLEikZV2ycv8ATiu00L7W9onma39mhNu1gGSLy12Cc/u8benBBapUtbb+14NH+xwG1ksQ7SeUvmFyhfzN/wB7r2zjHauYOoXTaatgZj9lWTzBHgcN656/hUy63qC2n2cTjYI/KDeWu8J/d343Y9s4rs9vDt/Wt16a/gcnsZ9/66fP/Mu22ybwbfNJDCXgmiWOQQqHAJOfmAyfxNaukNFZal4ft4LaFvtMfnSyNEC7MSRw3UY29Bj3rnodcvYLM2kf2cQNjchtIjux0JJXJPuaW017UbGONLacKIiTGTEjMmeoDEEgH0HFOFaEZKWvT8Pn1CdGck13v+RRn/4+JP8AeP8AOvUtKgsYfBdq/wDZWmyS/wBh3N55s1nG7mVJwqMSRzgE8Hg9815WzFmLNyScmtWPxPq8Vitml3iBLV7RU8pOInbcy5xnkjOevvXnyi2kv62f6nWt7/1uj0fV9IstA1maSSKyt7O81byra3j0aG8kl+VNy5kIEaAnAC8/MfapLfQ9Eih1PS735LGHxMUt7YsQJn8ptkRf+FScAtzx+dcCvj7xKs0sv9ohpJJfP3PbRMUk27dyZX5DgYyuKoXviPVdRhuI7y7MiXF39slAjVd02MbsgDHB6Dj2rBUp2Sb/AK0/yY79/wCt/wDNHZ2UcDeHta1m/h0bS9T/ALRWyVbvT98NqoBYqsSxuA3GNzKTwecmjQ20aT42aXN4ceNrSU72WGN0jSQxNvCBgCFznHHeuVfxnrkt5PdTXUU0lzGkc4ltInSYL90uhUqzDsxBb3pLbxjrNnqzanbzWyXhVFWU2MB8sKu1QgKYQY4+UCq9nLX+ugN3X9f15Gv4ca3ttC8W6hJY2l3cWqw/ZzdQLKI2aUqWAYEd+h4OOc10F5p+nWenXXiFNNs2u/7AtLhYfsyGFZpXKNJ5WNnAGcYxk5xXn83iLUp4r2IyQRx3yotwkFrFEsgRty8IoAOecjBPepovFutQzQyLeAmG0FkqPBG6NAOiMhUqw5/iBpunJr+uxTknJv8ArdHpJgsdRt7LVdRhsIpLTw0J4Unty1ukjSld5jVTlRnO3aQMjjA4wYJtHu/E3h9NNttM1i8u0a11O3trMxQOM4DoHjXY23ksoGCv1zzEvjPXp9Shvpb/ADPDAbdP3MYTyjnMZQLtZeehBHT0FJ/wmGtCQPFcQQFYHt1FvZwxBEf7wUKgCk5+8MH3pKnJO/r+v+ZN9Len5L/K53w0HRrXxpZ6OtnaPpNjp8moQ3U8Yc6gwUsGd0BYoDxsHGE6HNZ+nDw/qut+GY5JdKvtS/tHy7mOxsWhglgPK7kaJFJByOByMZzXFW/ibV7S3sIba8Ma6dI0tqVRd0Rb7wDYyVPdScH0qU+LdY+0Wc0UtvbvZTGeAW1lDCqyHA3FUQBjwOoPShU5J6v+tRS1i0v60/plzWtXiuNZuNM/s/TrXT0vAieTaIkkaKxH+sA3HI67ia2J5mX4zlZF2os3kxrngJ5e1ce2CPzrhJ5pLi4knmbdJIxd2xjJJyTWvd+I3umsbwQtFqtmFX7YsgIkVfulkK/eHAznnHStqa5VG/zIrx9pCcV1TR6Ja2Wn6dEn2aKKPy57axmKqF3yJICWPqTnr1rmdE3faPEPn5/4/YM5/v8A2jj+tcu2uak9vNAbphHPcfaZAAATL/eyBkfhUlx4j1S62+dcL8somJSFE3yDozbQNx+ua15tU/66HlxwVVKSbve34WOr1P7NZR+IrmzeW5lub4W06PGEEA37t3DEsCRgHj6Uy8z/AMJj4pz/AKv+z5d3p9xcfrXJpruoxz3ky3A332ftG6NSJOc9CMDn06VJe+I9U1CKWO5uF2zkGYxwpGZcdNxVQWx6HNTfT5GkcLUT3X9cvl5F66/5J1Yf9hCX/wBAFdq6i9muG6y6dakdf+Wclr/8Uv6153L4h1CbT/sMhtfswziMWcI2kjBIIXIPuOaVPEerR3E86XZElxCIJT5a/MgGAMYx0HXrTb38/wDKwVMLUmuiev4teXa51cWf+E80LH3f7Nj3/wC75TZrM1yTT00bQRfWtzM/2H5WhuVjAG9uoKNn86yJPEmqy23kNcKF8kQF0gjWQxj+DeF3Y46Z5pq+IdQFtDbubWWOBNkQms4ZCq+mWUmiTT+//McMLUjKMnbTTd+fl5nS+GfPHhWQfL9sJm/skNncTs/e7fw6f7VL4WtfDc3h66k1WGN7iOHc5EjkqPMABfKHZzgZQk7SeM1yj61fvcWk/n7XsgBb7EVRHg54AGOv596q3E8l1cyTzFTJIxZiqhQSfYcChu500aUoTlJ9df6/re4+8ES304t9nlCRtnlsWXGeMFgCR9RmvSvDXhrRdd8GaXdahBCrAXFlvjXY7XDyIImYrgtgMeua8urTtPEeq2Gmx2FpeNHax3S3iRhFOJl6NkjPbp09qStaz/r+kdL3uj0TxXa2XhfRZrnT9L06S8hvLfT5Gmso5FULbq7fKwI3MxOWxn3o1DTdJ0OXxtcW+kWjm1jspbWKeESLbvLycA54Bb7vQ4AII4rhY/GmvR3d5cG8SV72UTTrPbRSo8g6PsZSoI9QBVWXxHq06aks968o1Rla8LqGMpU5XkjIwfTHpS1ev9dBqy0/rf8Ay0Ol0y/jn8J65r8+m6Y+oWot7WEiwiEah3YtIYtuzdgBc7fStjVLkS/EvwuHs7Mw3thYxy28tqksYVjyFVwdvsRyB3rz7S9bv9G88WEqBLhAk0UsKTRyAHI3I4KnBGQccVoN4216TWF1Wa6gmvkRESaazhkKBTldu5CFI9RzVJrmT8/0/Uhp2f8AXY39JgsrXxB42lbTrO4FhDO9tFNArJEwnAUhSMcenTHHSthNO05tPt/EUum2T3Q8OyXXkLaosLTLJ5YkMQAU8NkjGOM4rgbjxTq1zNeSvNAj30JhuTDaRReapbcchVHJPO7r70QeLNatzZ+Ve4FnA9tChiRl8ps7kZSMODno2azs7JeX6S/zX3F9W/66f5M9JsIrPWdJ8P3+q21in2TR766WKSAi3MiSABmjRfu87ioGPQdq55r3SWv/AA9Jp0Oka1q7Stb3trbWBiguUZhs+V4kVXwSNyrxwa5ybxpr895Y3TX+2XT1KW3lQxxrGp6rtVQCvbaRjHGMUJ4z1uK4gmt5ra3e3WRYvs9jBEI94AYgKgAYgAbuvvV3V7/1u/8Ahibaf12/pm78R9MsfDrWekaLaRfYW3zi+Kq8k77ypTzMZCpjbtz15PauLurO5spRFe28tvIVDBJUKEg9Dg9qtx6vczabBpF7dONNjnMwCwo7xsRglScHn03AGp/EutjXNQikTzjFbwLbxtO26R1XPzMfU5z/AI1Nrf1/XoVuUdNt0utVtbeY4jlmRGwexIFa0l6T4iWyS0tYYY7xUQJAodAr4+/jcffJNYAJVgVJBByCO1X5Nd1CXHmSxltysZBAgdivQs2Mt07k10U6kYpX739TCpByfyN69QaqdcT7NbLJb3iLAyRBWy0hU5YcnPU5zTdRt7R9N1iMmKSexZMGGxSBY237SAyncw5I+Yds1z39qXg+1YmI+1uHmIUAswbcD04554xU9z4g1K7tpoJ7hTHPgyhYkXzCCDkkAEngc9a09tBx1Wtv87GfspqSttdfpf8AU0tfuo9PuobazsrNUa1jaTdboxZmQc5IyPwxzzW3cWfhUeDfOiigFw0jqr+dJ5YkEa/KH8veTjBCn5dxPOMCuHu7ye+mEt1J5jqioDgDgDAHHtUFYVZ+0lJ9G9PvNqUORK+4V3mmTQaxodlp3hiz0v8AtGG2kW6s72zjaW7bkmSKZlJyFOdu5SNvANcHW7F4y1yC3SKG5hjaOD7Ok62kInWPG3aJdm8ccferN7WNFvc3rLWbq2+EU3lxWRMerRxDzLCB8jymOTuQ5b/aOT2zSSXFvo/wv0W+tdN099Qurq4je5uLOOY7FI4w4IPbkgkDOMZNcxpviHUtJs57S0liNrcMHkguLeOeMsOjbZFYA89RzUM+r3tzpNtpk026ztXeSGLYo2s33jkDJzjuaHe7fp+gLZLtf9f8xJY7rVLi7vYLLCAmWVbWEiOEE+g4VfSqdbej61Do+k6isT3L3d9CbcxYCwqh/jJySzdgMDGTz2rEoDzNzwxsluLq3mhhljNrK/7yFWIYKcEMRkfgaLKRLTwnLdJbW8lx9sWNZJoVk2rsJIAYEdu9ULDV7vTVYWZhTcCCzW8bsQRgjLKTj26VHLqFxNbvA7IInlEpRI1QbsYyAAMcdhxXQqkVHTe36nO6cnJt7HUx7dO8VavBaRQpF9jklCmFW2nyt2BkHAyenSuRnma4maWQIGbqI41RfyUACrX9sX/9pG/8/wD0kjaX2rhhjGCMYIx2xVWed7iZpZBGGbqI41Rf++VAApVaint5jpU3DfsjufAGk6ZrWg6omq28LR2NxDdyyFMP5ID71DjDAHaOAa6jUPDek6BotzNBp9pcXFlY3N7bCWBXyskwWJ23Z3hUzgNkc5ryjTta1DSYLyHT7kwx30JguFCg70PbkcfUc1d/4TDXft0F2b8tLBafYl3RIVMGMeWykbXHP8QNYPXb+tLf5fibrz/rX/h/wO90TS9K1HVfDWo32lWmdQ0y7a7t0gVI5GiDBXCDhSQM8AcjPFYPhXUYdf1qdtU0nS3i0+1uL6GGCxjjDsqZWNtoG9R1w2Scck1z58X65/akeoC9C3EUBt4tkMapHGV2lVQLtUYJ6AVn6bqd5o+oRX2mztBcRHKuAD7EEHggjgg8Gh6v7/zf/AEtP68ket+F9QkvdL8MXTwwQS7tSz9nhWJWIi6hVAUfgB09a1ItPsr86Fdz28M1nreq/bjBKgddz2Z3Ag8H51Y15M3jnxAzW2L2ONbQSLAkVrEiRB12sAqqAAR7e/WoIfF2uW+n6fZQ6g6W+mz+faKEXMT885xk9TwSRzQ9b/L89f0DW33nbfD/AErTrvR7aW9061uWOsTRkzQq25RaOwXJHTIBx681J4hs7G48BXFyNMsIJxplheebb2kcTebI7K5yoGAQB8o474zXHnx94j/dBL6OJYZGljSK0hjVXZWVm2qgGSHbPHOc9aqN4o1Sey+w3dy0lk0MVvJEqIpaKNiyKG2nGCTz+eaHr+H4F31v/W9/yL2okS/DfSHnH76O8mjhYnkx4BP4BjXNDG4biQM8kDNaWsav/aZtoYIPstnaReVbwb920dWYnAyxPJOBWZR1bJ6WOo8TLGnhnw6tlI01kIpjHJImyQv5nzAqCQAOMYJrl615tZt7rw3aaZc2khmsjJ5E8c4VcOwJDIVOe/QjrWRR1YdAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCSCFp5ljRkUsesjhFH1J4q3daU9pqCWs1zbjcgkE25tgUjIPTP6VQrZ8Qoz6jBsQvts4mIAJ4CDP4UB1K/wDYtxIbc2ksN0lw5jSSIkAMOSDuAI456dKiu9Oe1t0nSeG5gdigkhJwGHYggH9K3La+EGl2F6LUQwx3MiG3iBxKCnLgtk5A45JH0qpefZYfCkcVsZmE12ZEaZApYBcHABPAyBnvzQwMKiiigAq7LrF/NC0Uty7IwwVOORVKik4p7oCaz/4/oP8Arov86u+Jf+Rs1f8A6/pv/QzVKz/4/oP+ui/zq74l/wCRs1f/AK/pv/QzTApyQxpYQTLJmSR3Vkz90Dbg/jk/lUFTyRRLYQSpJmV3cOmR8oG3Bx75P5VBQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA6OWSGVZIXaN1OVZTgg+xq02r6k7o76hdMyHKMZmJU4xxzxVeARGZRcs6RZ+YxqGb8ASP51e1fT4rTUIoLISussUbqrkM2WGccAUAVZNQvJbhJ5bud5o/uSNKSy/Q54plxcz3cnmXU0kz4xukcscemTW1N4ehW4063inYvOXWdzgqpT7236c/lVa+023XR4tSsROkTzGIpOwYn0YEAcHB/EUAZNFFFABRRRQBNZ/wDH9B/10X+dXfEv/I2av/1/Tf8AoZqlZ/8AH9B/10X+dXfEv/I2av8A9f03/oZoApyRwrYQSI+ZmdxIufugbdvHvk/lUFTyLALGBkbM7O4kX0Hy7f61BQAUUUUAFFbGmW7NouoyxCwm2xgyLMjmWIZxuQ42g5PrTLTQJbq0trhru1gS6kMUQlZsswOMYCn169K19lJ2t2v+NjP2kVe/9dTKorb0/RYJbLU2vbqKCe1UKFff+7beASdqnI6jjP071jSKEkZVdZADgOucN7jIBqZQcUm+o4zUm0ug2itrS/DU2paLcaq99Z2VnbSrDJJcs+QzDIwFVifwGfwyal1HwdqOmW2pz3MluU02WKKTY5O/zBlWXjkEc84PPSjkklewe0je1zAorr7f4barcbf9N06IuYVTzJHG9pU3oo+Trjj6/nWLrvh+50CW3W4nt7hLiMyRy27MVOGKkfMAcgqfb0JolTlHdeQo1YSdosyqKs2Wm32pSMmnWdxdugyywRM5A9SAKde6VqGmbP7RsLm08zOzz4Wj3Y64yOetQaFSir+h6NdeINat9MsPLE85IDSNtVQASST6AAn1qebRrWK4tkXXtNmimZlaaMT4hIAPzKYg/OeCFI6+hpX1sBk0V2HinwjaWfjkaLol/asZrmO2jgYy7oiwUZdimOSc/KT16Vm6p4bbQZLgT6vpct7ZOBJZozu4OQMfMmxsdxuOOcjgipjUi0n3HZmDRXZeM7IXcnhj7DZW8d1qGmxM6WsCQiWVnIztUAZPFUr/AMD31lHcNHfWF41nOlveR20jsbZ3OBuyoBGeCVLYPFCmnv8A1rYT0/P8LnNUV02r+Bb7SINRZ7/T7mXTGQXlvbyOXiDHCtygUjp0JIyMgVHqNtDofhuxgEET32pxfaZZZEDmKIkhFTI+UnBJI56DNNSUldDs7nO0V0GpeEZdJtwdQ1bTYbs2y3Isi8nmlWGQM7Nm7BzjdV298MaXb+A9O1RNYsxdXEs+/cJ/3m1UxGo8vAYEnJOBk/eI6V3EtWrdf8rnJUV0o8FTxabp1/qGr6Xp8GpIHtjcSSZbkgghUbGMDJPy8jnrhthaw634ev7cwwpfaXEbiKaJAvmxA4dWwPmIyCCefejv5AtbNf1c5yir1pphu9Nu7z7bZw/ZgD5E022SXP8AcX+LFUaACir2kWaXupxxz8QIDJMfRFGT+gx+NLYWsepa2kSJ5UDyFmXJ+SMcnn2AqXJK/kQ5pX8ihRW5pkdvczalJZWsb3CrmztpBv4zzhTncwXsc/Q1cW0iOoaKL61hhvZZ8XFuIwoKZG0sg4UnnjAzWbqpO1v63IlVUW9P6tc5eitmzsYJtT1GW4j3W9mskpjU7d2DgLkdBn9Kki0wala2t9p1gwIn8q4hhVpFGMENzkgYPOTT9ohuokYVFa2rRWsPiy4ikQRWq3OGWNcbVzzgD2rVMMpvPPt4tHOkCQKHYQ4CY6En95ux+OaTqqyfcHUskzlKKs6h9l/tG4/s/d9l8w+Vuznb268/nVatU7q5qtUFFdLe3dpJdFtPvdJht9q7Uk0/LA7RnJ8k9896ztbns5dSikshDJGsSCTyojGjuB83GF6n6VnGbb2Mozb6GXRW9FFaz+Hr6+m0yCEIVigeNpeXPXq5HAqHV7B0sNOuYbVlgNonmSpHhS+5up6Z6UKor2+Q1UTdjHoroPsljaXOm2UtmtwbyON5JjIwZd/HyYOOPcHNMuLGG10HUFCo8kGoCJZSo3bQD3/Cj2q/r7hKqnYwqKK3NItFmgWa80y3WxjOZbyZpVyM8gYcAt2AAq5SUVdlykoq7MOittVtJ9G1m4trZY0WaLyQ3zNGpY8ZOT9eajWG00/SbO6urVbuS7djtd2UIinHG0jk+pyPap9p5f1a5PtF2/q1zIoroxpUFlc61BtEyR2fmQtIoJUEqQfY4OM1zlOM1LYcZqWwUVNbTxwMTLaxXIIwFlLgD/vlhWrYGyv4r4SaZbxeTavKrxvLkMMAdXI7+lEpcutglLl6GJRWrolrbXMz+ejysqklDFmNV/vM3mpj8TitS306z/4SCGJLdsyROVhMAMbjYxDK3mPu5x0qZVYxbRMqsYtrsctRVpQ2n3LJfWCu4HMVyHTb74BU1rzW1mg0bNlDBc3MokkjRnYeWWAXIZj15NU5pW8xyqKJz1FXNXRYtavUjVURbhwqqMADceAKp1UXdXLWqCiiimMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAHRxmWVY1KgscAswUfiTwK6S/u4rDWLW+Ihu0jtkjAhuUJVwmM8bun0xXM0UAdVbalpkA0d/3igGYSbp1cxhuDuwo65z2/Gqeq3Hl6TJbyTQPLNchkjglEixxIpCjI6denX1rBooYdQooooAKKKKAJrP/AI/oP+ui/wA6u+Jf+Rs1f/r+m/8AQzVKz/4/oP8Arov86u+Jf+Rs1f8A6/pv/QzQBTkFv9ggMZ/0gu/mDngfLt/9mqCp5Ps/2CDy/wDj43v5vX7vy7fb+9UFABRRRQBu6M9lDpOoR3OowQyXcIjRGSQlSGB5whHQds0i31rHa6NF54Y2l07ykK2ApdSD054B96w6e0MqRJK0brHISEcqcNjrg963VaStZbL9b/mYukm229/8rfkbq39lPe67G9yIY74kwzMjFeJAwyACRkD0rBkUJKyq6yBTgOucN7jIB/MU2is5Sckk+n/Dlxgo3sb9vqdpH8Pr3TXlxdy38UyR7TygRgTnGOpHeup1rxHomtx61p6apHbR3aWbw3MsMpQtEoV1IVSwPpxg4615vRVKq7NW3t+CsQ6MW7/1un+h6w3jLw4l3aeTqLNDDe2L7mgcHZFEVYkY7Ht+Wa4zxbq1lqdno6WM3mtbQSpKNjDaTKzDqOeCDxXNUUTqymte9/vFToRptNFmyuobWRmnsLe9DDAWdpAF9xsZT+dOvbyC72eRp1tZbc58hpTu+u92/TFQwWtxciQ20EkwiQySeWhbYg6scdBz1qKsjc0NEKrq0btqraQyKzR3iq58twp252fMATxkA4z0NbHii90i607TzDNa3msBnN5d2Nu0EUi5+UFWVMv1ywUZ4ySea5eilb3lLsC0O61fVdHn+Jdn4lttVhktJb63nkh8mUSwKu3duBTacYP3WauV1+6ivvEmpXdu/mQz3cskb4I3KXJB556Gs+ipjBRSS6f1+g7nc3uvab/xSmrWt9DLNo1vBHPYtHIJGZJCTg7NmMd91WNV8SRPJqE1p4j082l5cRyG0g0gRTyL5gbEriJeV5OQ7ZI968+opezV7/1vcT1VvK33He3niTSZbzx08d3ldWx9iPlv+9/ehvT5ePXFZOsxvrfhzTNVs0aU2NuLO9VBnydhOxiOysD16ZBFcxRThBQVl5fhoU5Nu/8AWtv8juDeaKmh3ttq2t22uxJabNNQWsqXcEvGwb2UBY1y2U3svHAzWe11puo/D6x099Tis73T7m4lMM8Uh85XC42MisM5XHzY69a5eirepK0a8v8AKx0vifV7PUdB8NW1nP5kljYmKdNrDy3Lk45GDxjkZp2jRPonhzUtVvUaI31sbOzRxgzb8b3HqoA69MmuYoo7+d/x3BaW8rfgbekaTZX3h3WL26e4jnskR4WUDymJbG1j1yewHoaxKs+ffT6f5Hm3Etnbnf5e5jHET3x0GaZbWd1eMy2dtNOyjJEUZbH5Um1e4rpLUvW0sdnoF1IJF+03TCFVDDcsY5YnuAeBRYyx2ei3s/mL9onxbxoCNyqeXbHXGBj8ary6RqUETSTafdRxqMs7wMAB7nFU6jlUr2ZCin16mjoNo17rEMCOqMwYgtCso4Un7rcGt3cRrelwnS/JhlZIpjdabHF5rbuSBg44PY1yNSRwTTKxhieQKQGKqTjJwPzNKcOZ3bJnT5nds0be9i0/Vr2OaMm1n8yCRY8AqpPVe2RgcU43tv5Nlp9iJGiS4EskkqhWdzgD5QTgAe9ZTo0cjJIpV1OGVhgg+lNp8i3KdNPU39QaT/hNrqKLygZrny8ywJKBlgM4YEVNcL4igea0j09pLdZTjbpabHI4DY2Y6VzaqzsFRSzMcAAZJNK6NHIySKVdThlYYIPpU+z0S008ifZ7bfcWL+W5efy7yFIZI+Ci26wkfUKB+tQwzNbzCRAhZegkjVx+TAg1Yj0nUZoRLDp91JGwyHWFiCPriqdaK1rI0VmrI657a/srm6hk0v7chgH2eaHSo9u8gEHheg5HesO6knW4ih1m1+zxgh2WO0jhkI9sKP14rNoqI07b/kRGnbc2x4jYTLELVP7NCeX9h3HaV65J/vZ53dc1HrxQrpmwMqGyXAJyQNzfTNZFFNU4ppoappO6N2DVILaFI4tUvAIwRGzafEzR567WMmV/AilkEA8I3P2aWWZTeIS0sYRs7T2DH+dYNFJ00L2avcK6HR0vL7T5pWmmnW2KRpELJbtgDn7oc/KOO3tXPUVU48ysVOPMrHUag0sHh+7gks7xfNaM+Y+lpbIuD3Knnr3rMivbK5022tNT89Psrko8ChiyMclSCRjnoeevSsqipjTSRKppI6O1v21KTXLpkCb7LCoDnaoKgD8hXOUUVUYKOxUYKN7FqDUZraLy40tiuc5ktY3P5spNbOqancWC2gs0tYRc2UbzBbSL5yc5z8vTgcdK5yilKnFu4nTi3c0rLUYlivbe9VhFeKNzwIoKMpyCF4GM9uK1NLvobjU7G0tRJ5NrBMFeUAM5ZSScAnAz0GTXM0UpU1JP+ulhSpqV/wCvIt6fcWtrMZbu0N0yjMaF8Ju/2hjJHtkdKlgvJr/xDb3N0++R7hCT/wACHA9BWfRV8qvcpwTuXta/5D1//wBfMn/oRqjRRTirJIpaIKKKKYwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAkgkWGZXeJJgp+5Jnafrgg/rWxq9kbvXba3s4Y42ngibbGgVQSuScDp61ixiMyqJmZEz8zKu4gewyM/nWzf6zELyK70qWZZVgWBhNbpgqFwe7dfTFAdR2siyitNNks7eNogZFJIx5wVgMsRgnPXr3qHXhGV0+WOCKEy2iuyxIFGdzU2+1db7TbK1dFQxFjKyW8a9Txtxjt24zSatd2N1bWi2slwXt4RDiSFVDAEnOQx9en60dARl0UUUAFFFFAE1n/wAf0H/XRf51d8S/8jZq/wD1/Tf+hmqVn/x/Qf8AXRf51d8S/wDI2av/ANf03/oZoApyNbmwgEYxOHfzD6j5dv8AWoKnkeA2ECIuJ1dzI2OoO3b/ACNQUAFFFFAGsljYWmk215qIuJmu2by44JFTYqnBJJVsknoMD61ppDp1xoejQ3S3LLNdSxx+W6qVBZRuOQcnpxx35rJh1S3fTobPUrR7hLdy0LRTeWwDcspyrZGcehpTrCiOwSO22LZTtMo8zO4FgdvTjGMZ5rsjOnF+Vl+av+pyyhN+t3+Tt+hetdAh8yWO6hmcR3bW5m+1RQJwccBwdx6nA9qYuh2dtbarLfyzP/Z9yIQsJC+bkkdwcdAc89+DQ3iSCdla807zvKupLmECfaFLnJVvl+YZA6Yqtda59pt9Sj+z7ft1yJ8787MEnHTnr14pN0VHTf8A4b9bitWb1/rX/Iz7o2zTZsklSPA+WVwzA9+QBn8q2fDejQanb3s1zZ3NwlsEO6O9htIkySPnllBGemABzz6VgVvaN4ht7HRbzSNT0972zupY5sRXHkurp/tbWyCDgjH0IrCHLe7/AK/M3nzctokfizQ4/D+vNaW8pkgeKOaIs6uQrqGwWX5WIzjI4PWsWuwGuQeIvG1rqs9np9nZ2sUaTW93KGi8tF2nCnBY46KATnHWuY1KW3m1W7lsk8u2eZ2iQDG1STgY7cVErczttd/dfQqHNyLm30+86TwD9n3+IPtnmeQNHmMgiIDEbk4BPAJ9ap61o+mWdpouqWTXQ0/UlYvFK6vLEyPtcBgFB9RwPeq/hvXYtCmvjc2X22G9tHtHjEvlkKxGSDg88VZuNVXWrjSNO061gs7PTwRFHfXSlWLNudpHIUHPoAOBgVtKUXCK6r/N/gY8slNvp/wP8zH1L+z/AO0JP7H+0/Y+PL+1bfM6c528dc1VrX8U3On3fiW7m0eOKO0JUIIU2ISFAJVewJzWbbGEXURutxhDDzAgySvfHIrnWx0S0NLUAbLR7LT1yHmH2qYepbhB+AGf+BU7Vpn06WysYWAaxQO3AI81vmb2OOB+FRDUoJ/Eh1G+RzD5m8RoAeB91evTgCqYuvM1H7VeJ5+6XzJEzjfzkjPbNZRi9L+vzMFF9f6bNe9muH8Ko+rTPPcXE++281tzqgGGOTyATjj2zWHBEZ7iOFeGkYKM+5xWhq+p2+qTvcfZ7iOZsBd1wrIij+EKEGB+NZ0TmOZHVtjKwIYdvenTTUdVYqCaj5m5c6VpyQ6osBuRPp+Bud1KyHcFJwF478ZNR6pY6Xpc4tz9qmkaFZAwkUBCVyARt+bn3HBq1f6ranTr9VltJbm8ZQWtopF3YOSzb+AeOi9zWPqmof2le/aPL8r92ibd2fuqBn9Kzpqbet7f8N/wTOmpt63t/wAN/wAE1G0GE2c7COa3mhtxOPOuYyW4BOYgNy5zxkntVx/DWm/aHgR7rcJ2gDF1xny94b7vTtjv1yOlUJPEUMjXc32D/SryDypJPO+VeAMquOM46Emn/wDCU/6W0/2Prcmfb5vrHsx0/HNS1WZNq39en+Zz9dLbXN1/wjunR6dqCW7pLIZkF4sJwSMZBYZ71zVaelGyNnfxXkkMUksaiCSWNm2tuBPKgkcVtUV1fsbVVdL+vI3Lie2luPEsrE3EDCI5hlA3fMOjYI/SsvSJrKG0vI7m4iWO7UIY2eRXQBsjkRMD0qttFpZXEdvq1rIkygSRJHJl8HIALRjHPuKn8P3lvZ/a2mufIlaMCEtJMqk55z5XPSsuS0Hv0/Qy5LQe+6/QdJaaGYmEN4qvj5WaeRgD7j7OM/nWNIoSRlV1kAOAy5w3uMgGumuNckeyuIv7RsXEsTIVMl45IPoHyufeuXrSlfW9zWne2pv6PNLB4b1FoJHjYzQqSjEEgk5HFbkjvc65q8c9ztSOW3CeaWIUeYDgAA4zXH2mpXVlDJFbsnlykF1eJXBI6H5ga1rPX/OjuW1OWPzXkhYMsCqW2yAtkqvOAO9ZVKcuZyX9bf5GFSlK7kv62MrWP+Q5ff8AXxJ/6Eais7SW+vIra3UtJK20Afzp2pTJcardzQtujkmdlOMZBYkUltfXFpHMltJ5YnTZIQo3FfTPUD1x1rojdQVtzq15dNzf1iLzPEdle2ziezeWOFJV6BkIUg+h4z7g5qjqNnI3iS4+xAag/nvI0MMbsVw3RgVH6ZFVNM1GazmWPzils8iNKhGQQGBzj146jmm3s0M2tXE/MkD3DPxwWUtn8OKyjCUWl2RjGEou3ZHU3WgvqPiC3uZDqcEl0EmYrb7lgJ52+ZkbcYwPl44rnvEAu5dWmu7uxlsxO2VWRCM4AHUgZ/8Ar1fkurM3Qazu9LgtMjbDPYFnVfRj5bZPvu59RWPqclpNqUz6dE0Vsx+RG7cc9zjnNTSjJSV+3b+v1FSUlLXsVKKKK6jpCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAACSABknoBUk9vNay+XcwyQyYztkUqfyNJDNLbyiWCR4pF6OjFSPxFdFe6e2q+I7SD5iptInkKjLbQmTj1NAHP/ZLj91+4l/f/AOq+Q/vO3y+v4UtzZ3Vmyi7tpoCwyoljK5/Ot/X/ALaNP0+5a2ntNjSqo2MnlDICr7cD8aqagh0/QLbT5zm5kl+0sn/PFSuAD7nrR0DqYtFFFABRRRQBNZ/8f0H/AF0X+dXfEv8AyNmr/wDX9N/6GapWf/H9B/10X+dXfEv/ACNmr/8AX9N/6GaAKckkLWMEaR4mV3Mj4+8DtwPwwfzqCp5JomsIIVjxLG7l3wPmB24H4YP51BQAUUUUAFFdLb2lu48MfuI2M0rCb5AfMHm4+b149asAwWsWmLHZWjG4v5Y5GkgVyUEgG3kcdevWur6u76v+tP8AM53XXb+tf8jkqs2Fl9vuDF9pt7bCFt9xJsU47Z9a3ENpbXF7plqtrDeLesI5bqBZUZAcBMsG2nPfGPUim6HE48QXllf2luCUmMkTQo2xgpPykg4APoalUlddRyqvlbRzlFbmnqLbwzPfQ28M1x9rSH97CsoVNpPQggZPGa1tUjt9PbWZYbC1WSJrYRq8KsIiyHdgEY/P60Kh7vM2DrWla39XS/U42iu1msLK3+33oWzgkNvbsnnQl4o2kHzEIFYduOMDNVZP7MEN/qNgltcTQ2sWQID5SSs21mCOoGMcjjHNVLDuLs33/C/+X5ExxClsu342/wAznbyxlskt2lZCLiETJtJ4BJHPvxUEaeZKqblXcQNzHAHuTW14mk87+y5CixlrBCVRcAfM3QdvpWRbTNBcpIgjYg9JI1dfyYEGs5QSq8nS5rCTlC/Ude2v2K8kt/PhuNmP3kD70bjPBqDrXWm1tE8eX8RtIWgjikYQlAE4jz0HTn0qldSZ0XTNTWG2S4M0sbbbZArAYxlcbTjJ7Vfsbvf+r2M41r2Vt/8AK/6GJcW8tpcPBcIY5UOGU9RUVbni26km8RXcTrEFjlO0pCiseB1YDJ/HNYsbmORXUKSpBAZQw49QeD9DWEklKyNYScoKTLupaUdNitHN9ZXX2qES7bWcSGH/AGXH8Le1UK73V7a1m1zwXI1naJ9tt7d7lYbZI0lJlIJKqAORx0rQaysNdk8Q2k2n2NpDp+rW8Nu1rbJEyI0xjYFgAWyOfmJ56YrZUXJtLu191v8AMx9vaKb8vxOBstIuL7StRv4njEWnqjSqxO5g7bRt49fXFUK9PuJ4ruy8aabHY2lja21xBbxGC3WMoguAvzFRlumctk9ab4lTw5YXWt6VPLpMMVtAEsIYLKQXKTIBjfJ5WGDc5y5HIpOkuVST/r+vxCNZ8zi11/y/zPMqK9L1C0tYfAY8SR6LZpqtxbxRTQ+VGY4IyzKLkRYwC+0Accda4gz3H/CMCE6TB9mNxkaj9nbzN2PueZ0xj+Gs6kHB2f8AX9f8A1p1PaK/9f1/w5l0UUVBoFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAOjcRyqzRrIAclGJw3scEH9auajqZ1JkaS1gidFCBot+SoGAOWIqrBC08yxoyKWPWRwij6k8VNqOnyabdCGWSOQlFcNGSQQRkdQKAJYtWmi+w/uoXFizNGHUkMSc/Nzzz9KZf6gL92ke0hjld9zSo0hZv++mI/SpJ9GntRaG5lhiF0CRuYjy8Y+9xx17ZqO501oLRLqOeG5gZzGXi3fK2M4IYA9PagCnRRRQAUUV22qaZZRaNcSR2sSuseQwQZFY1KqptJ9SXKxx9n/x/Qf9dF/nV3xL/wAjZq//AF/Tf+hmqVn/AMf0H/XRf51d8S/8jZq//X9N/wChmtiinJOj2EECx4eN3Zn/ALwO3A/DB/OoKnkuFewgtwmGid2L/wB7dt/lj9agoAKKKKANC01zULGGOO1nCrExaMmJWaMnrtYgkZxyBUTandt5G6bP2eQyx/KPlYkEnpzyBVmws9+kX1y9il0FQbZBdKrQc43FM5YcjqKjtdC1C8t4p4IVMUzFI2eZE3t/dG4jJ9q3tVdkrvTz/rovwMb0k23b8Bya9qCMW8yJ2MrTBpLeNyrk5JG5TjkdqZaa3f2U0ksEkZllJLyyQpI5z1+ZgTzVjT9BkvbK+meSOJ7ZRtSSZEO7cAd24jaOT1xzWVIhjkZGKkqcEqwYfgRwalupFJtvyGlTldJLzNOx1lbaWWWVLhZJGBJsrgWwIH8JVVIx9MVFf6zdX010WKxx3TKzxKMgbRhRk88CjTtEvdUglmtRbrFEyo0lxdRQLuOSADIygng8CrNv4S1y6vL21hsGM9gQLlGdV8vJwCSTjHfI4xznHNO9VrlFakm2VRreoCcymcMxiELB41ZWQdAVIwce4oGt3wuDMJIwWj8ooIU8sp/d2Y24/CrsPg7XLm5MFpaxXLiETk291FKuwvszuViPvcHnjvxV/wAP+GdniCGHW4Le5t5LaaZBDdrKjlFP8UTnuOmaUpVErtvq/wA7/qCVJuysc9fajdalKkl7L5jImxTtC4XOcYAHrUVtcvazebEIy2MfvIlkH5MCKuRzaZeamj31u1haAfNHYKzljn/po5xn1ycehreuvCVjB441LTfOuBpum25upnJUylBGrEA4AySwA4rNzafM3ruXaKXLYwZte1Ce7N1JLH55VkaRYI1LBhg5wvPHr0qq97cPZRWjSZgicui4HBPU569q7A+CbSZ9Ivo3u7XTLy0lup0mKvLEsQywBAAO4FdpwOvSs/WNDtdM0fSNesraZrO93hrS+fcVZTx8ybCVYcjGDx70vatvV/1f/NCjGGlkYd7qd1qO03jRyOv/AC08pFduMcsBlvxJqvBM1vOksYQsjBgJEV1P1VgQR7EVveIrSyj0XRL6yso7N7yKRpUid2UlXwMb2Yjj3rnqbk3K73LSSVlsbl14w1m8+y+fLa5sypt2SwgRotpyoUqgIGe3T2qodf1Py9QT7UQNSkWW6wigyMGLA5x8vJJ4xWdRT55dxckVsjcvfGWu6hYXFnd3iNBdbTcBbeJDMVIILMqgsflHJOabJ4t1ma2aGaeGTfEIXle0iMroMfKZSu8jgdT2qbUrSysPCWkSR2Ub3WoJJJJcu77k2yYAUBgvQdwetc/TcpXauJU4W0RsN4r1l9Sub57sNPdQfZ5t0KFGjwBt2bdoGAOgqSXWoYvCK6LaPcy+bOtxO0wCpGQMbUUE9zktxnA4rck8E2Rg1Wzga8OpaTZLczzllMDPt3NGF27gdvQ552ngVw9Z83No/wCuv5jio7xX9W/yCiiugtbWyvvBepXJso4bvT3g2zxu+ZQ7EHcCxXt2Ap9LlHP0VetNGv77Tbu/tbcyWtmAZ5NwGzPTgnJ/CqNABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFdLe/Yx4is21GRUhSzib5lJDEIMA4BOCfaucjlkhlWSF2jdTlWU4IPsamuNQvLxQt3dzzqpyBLIWAP4mgDZ1qJp9I0+b7VHdSs0zny1f58tkkZUcDHfFQ3L+f4TSRIFtI0utuyPO2UlfvZYk5GMdcc1lJd3MZiMdxKhhz5ZVyNmeuPSi5vLq8ZTd3M05UYUyuWx+dHSwdbkNFFFABXoGsf8gG5/65V5/XoGsMDoNzgj/VVxYn44ev+RnPdHC2f/H9B/10X+dXfEv/ACNmr/8AX9N/6GapWf8Ax/Qf9dF/nV3xL/yNmr/9f03/AKGa7TQqSXO+wgt/Lx5Tu2/P3t23+W39ar1YkuHfT4ICmEjd2V/727bkfhj9ar0AFFFFAHQaFB/xJtUDz2sZuYAkSyXUaMxDg4wWBHTvQk8UdloMTTxboLyQygSA7BvXk4PTjrXP0Vuq1rWWyt+NzB0rttv+rWOlWWC4vvEUEdxArXRPkF5FVHxKG4Y8dB61zkkZilaNipKnBKsGH4EcH8KbRWcpcyXl/nf9TSMOW/n/AMMdh4XWzbwvdi1k0iPWWu41L6qIiqW+DlkEoKk7uuAWx26Vv63rFg1342NtqVrILqytI4HjkUCbAQMEA698gdK8woqvae7y2/q1v1M/Ypy5r/1dP9DqfB99BZ6T4mWa5jgefS2jiDuFMjFh8q56nGeBTPAP/IzN/wBelx/6LauZqa1vLmxuBPZXEttMoIEkLlGH4jmolLmVvK35/wCZoo2bfd3/AC/yC0tnvLpIImiV26GaZIl4GeWYgD8TXpc1/p9t8StUuLq6sJ7HVbM28Ti8jeNmCR4EhUkopZcZOK81vL671GfztQuprqULt3zyF2x6ZPaoKzav+P4jcbnqWn+I7S1k07Tdf1C3upLxLv7fJHOHijM20IpdMgDC4O04UH2rnPE+pMfDVtYXd3b3N/PeyXs620yyxwLtEaIGUlei8AHgAVyFSQXE1rOk9rLJDKhykkbFWU+oI6VKgv6/r+rAo2Oh8Rf8il4Y/wCveb/0ZWFYXX2K/iuN06+W2c283lSD/dfBwfwNOvdTv9SZG1G9uLtkGFM8rOVHtk8VVrTrcq2ljf1TxJ/aOnvbefrb7iOLvVvPj4OeU8sZ/OsFWKOrDGVORkAj8j1pKKAOn8VSfa9D8PX8ios01rIj+UgRPkkIGFHyr17AVzIOGB9DVhdSvk09rFb24WzY5a3EreWTnP3c461Wo2d0HQ9V1PxFaveXus29/aJYS6dIYoEuFM0t1Kmw74/vArjGSMAAYPJrgE0WOTwnJrKXqmSK5WB7UxkEBgSG3dD0PGKyauXGqXl1YwWUsoFtBykUaKi5xjcQoG5v9o5PvURgo7ExXLp/W1v+CU66jw5KbLwn4hvo1RpVEES+agdCGc5yjZUngdQcVy9WpdTv5rGOzmvbiS1j5SB5WKL9FzgVfQrqXdM0aPU9H1S9N6sM1jGJRAYj+8UnB+boOSOKyKuf2peDSzpyyhLVm3uiRqpkI6bmAy2O2Scdqp0dQ6BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUASQCIzKLlnSLPzGNQzfgCR/Or2r6fFaahFBZCV1lijdVchmywzjgCs+OMyyrGpUFjgFmCj8SeBXSX93FYaxa3xEN2kdskYENyhKuExnjd0+mKA6mfq+kxafBZ+RI8s0u9ZeQRvUgELx6kj8KNW0mLTrC1dZGe4dnScZG1WXacD6bsH3FXm1PTrS00meO3kneFpW8t7lSUJPVvk65wRx271W1K5spvD9mIBJ5xmlcq9wrsucZLYUde3Tv1oBbmJRRRQAV6BrH/IBuf+uVef16BrH/ACAbn/rlXFifjh6/5Gc90cLZ/wDH9B/10X+dXfEv/I2av/1/Tf8AoZqlZ/8AH9B/10X+dXfEv/I2av8A9f03/oZrtNCpJPI+nwQtHiON3Kvj7xO3I/DA/Oq9WJJZm0+CJ48RI7lHwfmJ25GfbA/Oq9ABRRRQBt6Ssh0LVWtb14iIQZ4TbqyyLuwAHJyDz6U2z0S2msrGe6v2hN7MYY0SDeQQQMn5hxyPf2NLpN7ptppt7DdTXQkvIhGfLt1ZUwwOclxnp6CmLqlslvpUSiVhY3DyOxUDcpZSMc9cCutez05u3f8Avf5HK+e75e/by/zLNhpljHZ6ymovIJ7VQhKQhwn7wDK5YZJ6duO/asGQIJGETMyZ+UsuCR7jJx+dbKatZyXusfaBOlvqJO10UMyfPuGVJAPT1rGkCCVhEzMmflZl2kj3GTj8zWNTltG3b9Wa0+a8ub+tEdp4X0m61zwHqlhYKGll1C25Y4VFCuSzHsAOSa5fV7WysdSkt9Nvmv4YztNx5Xlq7d9o3HK+h4z6Vq6J4obRPDd3aWjzxXst5BcRyJjZiPOQ3OepHGMVQ8QXGlXmqNdaJDNbQzDfJbyKAInP3lQgnK56ZA9MU6nK0mvL8kTTUlN32K1lps+ob/Ie1TZjPn3cUOc+m9hn8Kbe2E1hIqTvbuWGQYLmOYfiUYgfSnWWpT6fv8hLV9+M+faRTYx6b1OPwpt7fzX8ivOluhUYAgto4R+IRQD9axfkbm54NsFuJNTvWtEvHsbMyQQSJvV5WYImU/i+8Tj1xV7xno9pBFod5utreW6RoL57WMCJZY2CswVeOM87eCQcdayvCXiFfD99dGfzhBeWz27vBjzIs8h1zxkEDuPrU1zdR6zJo2jaJZXV7bWAICOoWW4Z23SEhSdg7Dk4AyTUNNzX9d/6+7sRqm3/AF0/UxdSt7S11CSHTr37dbLjZceUY9/HPynkc8VVrX8Uw6db+JbuLRQos0KhAsnmAHaNwDc5Gc81kVS2NHuFFFFMQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFSQTPbzLLHt3KcjegYfkQRW9q9rLqniG1jL/NJaxNJI38I2ZZj+GTQBztFdTcXtt5ug3B/c2kMz7eCdqK4x05zxn8azdXF7Pbrdyaj9vtWlZVYSORG3XG1gCOPagDIooooAK9A1j/AJANz/1yrz+vQNY/5ANz/wBcq4sT8cPX/IznujhbP/j+g/66L/OrviX/AJGzV/8Ar+m/9DNUrP8A4/oP+ui/zq74l/5GzV/+v6b/ANDNdpoVJJJm0+CN0xCruY2x1J27hn8B+dV6sSPOdPgR1xAruY2x1J27v6VXoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAdGYxKpmVnTPzKrbSR7HBx+Vad/rInuIriwS4s5441i3rcZyoGOyg/rWdBBLczLFbxtLIxwqIMk1JeWVxp9x5N2gSTaGwGDcHocgkUAXp9dkvLW0tr/AM+4jh3+Zm4OZSeh5BwR2zmq91qET6ellZwNBAJPNffJvZ2xgZIAGAO2Kim067gjt3lhYC6GYcEEv+A57ilutOubJc3AjHzbSqzIzKfQgEkfjQBVooooAK9A1j/kA3P/AFyrz+vQNYH/ABIbnk/6quLE/HD1/wAjOe6OFs/+P6D/AK6L/OrviX/kbNX/AOv6b/0M1Ss/+P6D/rov86u+Jf8AkbNX/wCv6b/0M12mhUkNx/Z8AkH+jh38s8dfl3f+y1XqxJ9o/s+DzP8Aj33v5XT73y7vf+7VegAooooAKKu2NrYz2l5JeaiLSaJN0EXkM/nt/dyOF+p9asaLo6anHfT3Ny1ta2MHnSukXmMcsFAC5AySe5FPlbGk3axlUU+YRLO4t3eSIH5GkQIxHqQCcfmat6RpU2sagLaFljVVMksr/dijUZZj7AUhPQo0VLdJBHdSLZyvNCDhJHj2Fh67cnH51FQAUUUUAFFFFABRRUlvA91cJDGY1ZzgGWRY1H1ZiAPxNAEdFbOreHzoWpWlvqV5DJDcwrOJ7IGUBCSMgHbnp6496q6xpMuj3oheRZopEEsE6fdljbow9Pp2NK91cChRRRTAKKKt3Wm3FnZWd1PtEd4jPEAcnAYrz6cg0eYblSiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK6W9toLrxFZpdypHCtnE773CbgEB25JAyelc5HIYpVkUKSpyAyhh+IPBqze6nc6ht+1GNigABWFEOBwBlQDj2oDqdZBHLPf6LPeNDkyzHEcyNg/whcE5xgDjpxXPXcVtc6O97DbC2kjufKIV2YSAgnJ3E8jHb16VR+3XPl26CUgWpJhwAChJz1+tOu9Sur5FS4kUorFgqRqg3HqSFABPvQBVooooAK9A1j/kA3P/AFyrz+vQNY/5ANz/ANcq4sT8cPX/ACM57o4Wz/4/oP8Arov86u+Jf+Rs1f8A6/pv/QzVKz/4/oP+ui/zq74l/wCRs1f/AK/pv/QzXaaFSRbgafAZD+4Lv5Y9D8u7+lV6sSJONPgd2zAzuI1z0I27v6VXoAKKKKAOs8LXdw3hnxJatPKbdbHesJc7A29RkL0z71L4T1TULbwp4jW2vrmFYLaN4hHMyiNjIASuDwT6iuetdf1ixt1t7LVr62hXO2OG5dFGfYHFVhe3Q8/FzMPtP+v/AHh/e85+b1555rTn107W/P8Az/A1jNRt5MjmmkuJnmnkeWVyWd3YlmJ7knrXR+GWz4c8SxQgG5azRl9fLDjfj8MVzNW9L1O40jUI7u0K71yCrjKup4KsO4I4NZ9LGXW51OialeaV8L9Tn064e2nOpQqJojtdRsbOGHI6Y47ZHeuj8YRKNG8VCFcySy6fPIqr1LJy3Hqf1NeZT38sqyxQ/wCjWsriQ2kMj+UGAwDhicn3JPWpotf1iC8e7g1a+juXQI0yXLh2UdFLA5IGBxW/tU4uL62/Bf5nM6L5uZef5o9pgkubC6s4QWhd7vTYJkI5KmDDKfbsRXnXxDle5i0O6uGMk8ltKHkY5JAncAfQDgelc1/burFlY6pe7lZXB+0PkMowp69QOAe1Vp7y5uljW6uJphECIxI5bYCckDPTkk06tb2i+bZNHDunJO/Sxf0T7F+++3/2Z/Dt+3/affO3yP13e2O9a3/Ek/6ln/yp1ylFc51m1rX9n/ZU+w/2Tv38/Yfte7GD1875cfTmsWinxSyQTJLBI0ckbBkdDhlI6EEdDQB0vjX/AFfh3/sCwfzam+ICV8HeGo5gBOIp2A7+WZPl/rWZN4i1S98tdVvrrUoEcP8AZ7u5keNj7jcD+RFQapqlxq9811dbFO0IkcYwkaAYCqOwFJXt87gtPuK9t/x9Rf74/nXc+KtbvD8QrrTZbySHS2uEimt1bEZQlSxK9CTknPX3rgwSCCDgjoRT7i4mu7h57qaSaZzlpJGLMx9yetaxqWSXn/kUpNJpdbfqegeJ9Wtt+v6bcPqV15ZX7Nbm0VIbEqwCspEhwuCBkKM5HrWX4l1fVJPCvh9ZtQvHiubWTzg0zFZSJT97n5sDHX2rnZda1WexFlNqV5JagBRA87GMAdBtzjio49U1CKwexivrlLR/v26zMI2+q5wabndW/rr/AJmsql233/zueg3kUknjDX50RjF/YW7fjjBhTHPvWX4h17UdK0zw7Fpl3LaZ02ORzC23zDkgBsfeA9DkcmuW/tvVTaLanU7z7OilFh+0NsCkYwFzjGOMVWmuZ7hYxcTSSiJAkYdy2xR/CM9B7U51Lqy/rVv9QdXR23/4b/I9Lsr65m17Q9JeVvsFxogM0A+7KTE3LDueBjPTFcVY/wBu/wDCI6j9iXOj+an2v5UPzcbevzenSs1dSvknjmS8uFliTy45BKwZExjaDngYJ4q3FrCWvh+fTrO2ZJLsr9qneXdvVTlVVcDaM9c5J9qmpPn1/re5Ep81v66JfoZdFFFZmYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEkEaSzKkkywqTzI4JA/IE1a1XT1068WGOYzq8ayKxTacMM9MmqccUk0qxwo0jscKqjJJ9hXUaiq6drtnd6lbXAhjtYwjCLI8wJx1IBweSM9qA6mTfaOmmrZtd3Dfvw3miOMMYiMcfeGTz7U26023i0mO/t7mV1klMapLCEJwMkjDNx0FXNYWGTRNMaKeeaSRpSpeEKXy/OcMcHP1z7VB4gbyJrbTVPy2UQRh/wBND8zH8zj8KOgdTIooooAKma8uXQo9xKykYILkg1DRSsmBNZ/8f0H/AF0X+dXfEv8AyNmr/wDX9N/6GapWf/H9B/10X+dXfEv/ACNmr/8AX9N/6GaYFSSOZdPgkd8ws7iNc9CNu4498j8qr1YkhlTT4JmkzFI7hEyflI25P45H5VXoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAJrP/j+g/66L/OrviX/AJGzV/8Ar+m/9DNFFAFF1YWsbFyVLMAvYdOf8+lRUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

먼저, 함수의 인자를 살펴보면 wordindex는 2-gram을 담아둘 구조체를 저장한 변수입니다. str은 읽어온 단어를 저장한 변수이고, wordNum은 읽어온 단어의 인덱스(words.txt 파일에서 몇 번째 줄에 해당 단어가 있었는지)를 저장한 변수입니다.

함수 안을 살펴보겠습니다.

int num = strlen(str); // 읽어온 단어의 길이를 저장한 변수

char a, b; // 각각의 2-gram의 첫번째 알파벳, 두번째 알파벳을 저장할 변수

int index; // 각각의 2-gram들의 인덱스(예를 들어, aa=0, ab=1, ac=2)를 저장할 변수

int arr[100] = { 0, }; // 읽어온 단어에 어떤 2-gram이 들어있었는지를 저장하기 위한 변수. 예를 들어, aaa처럼 aa의 2-gram이 두 번 이상 나오는 단어에 대해 중복으로 저장하지 않기 위함.

int k = 0; // 중복되는 2-gram이 있는지 체크할 때 사용하는 변수로 아직 읽어온 단어에 대해 어떤 2-gram도 처리하지 않았기 때문에 0으로 초기화

If (num == 1) return; // 읽어온 단어의 길이가 1인 경우 해당 함수를 끝냄.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADk3LTIzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NwAAkpIAAgAAAAM3NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMjoyMiAxMToxODo1MQAyMDIwOjEyOjIyIDExOjE4OjUxAAAAOQA3AC0AMgAzAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMTItMjJUMTE6MTg6NTEuNzcyPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPjk3LTIzPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAgYC7QMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6lhtp7ksLeGSUou5vLQttHqcdqirb8MTyjUGgEr+SYZWMe47Sdh5x60dAMaOKSaVY4UaR2OFVRkk+wqWGxu7iZ4re1mlkj++iRliv1A6VueHbC4ihj1CG3lmeWdYYyiFvLXI3ucdOOPxNTXMQhtNRj1LzrSJ9R3I6Jl3PJxtOOMHOc9+9H9fkI5dlZGKuCrKcEEYINJWp4jLtr9wzqF3bWXBzuXaMHPuOay6EMKKKKACtnR/+Rf1//r2i/wDR8dV/D0Uc3ibS4pkWSOS8iV0cZDAuAQR3FdJBpXjG+t0urHwrHNbyjdHJHo0RVl7EHZyKAOMQKZFD8LkZ+lSXaxLezrbHdCJGEZ9Vzx+laPiERf28pEUcKSW9tIyxRhFBaFGYhRwOSTxWddiEXs4tTmDzG8s8/dzx19qAIaKKKACr8ui31vpcWoTpFFBMu6MPPGruucZEZbcRnuBVKNwkqO0ayKpBKNnDexwQfyIruPEn2fUrzw3p66fawG7sbZROjS7ogzEbVBcjH1BPvWkYcy03ul95cUmm30RwtFdjf6XpFzbeIYbHT/skmjMvlTCR2aZQ+xvMDEjJ6/KFpniuLRdD1aXTrLRo3Bt1YzSTy70dowQV+bGASDgg555xjC5bK9/61/yKdJrVnI1atdNury3uLi3jBhtl3SyM6oq+gySMk9gOT2FVa6bXcWfg3w/aW+RHcJJdTEdHkLbR+QGKjoZdTCXTrptMbUBCTarJ5ZkyOG9MdarVsfZ7WXwi92LWOO4iuVi81WfLAqScgkjP0ArTt9N02W702w+wgveWXmvOZX3K+1iCozj+HuD+FdHsXJ6eX4/Iw9sknfz/AA+ZywRjGXCnYCAWxwCeg/Q/lTa6GC6hj8FPvsLeXbeqp3tJ8x2N8xw45+nHtXPVnOKjbU0hJyvoX9N0PUdXt7ybTrYzR2MJmuGDqNiDvyRnp0GTVCun8K2dhqWl67Fe6fDJLaadLdw3PmSB0cFQBgNtI5J5XPvXMUpR5UvNX/Fr9AjK7a7BRW5pHh7+07Hz/J1l/nK5stM+0J/315i8+2KztUsv7P1CS22XSbccXdv5MnIzymTj86jYvcZZWF5qVx5GnWk93Njd5cEZdseuBUU0MlvM8M8bRSxsVdHUhlI6gg9DXZ+F7FJ/AWryvcG1iN3CLuZeqwqGbA9SWwAO5xS+NbuwPi7TdUu9Pa4gutPhnmtWlKM5KkDLgZzgDn2qOb3rf1tclSucRU1pazX15Da2qeZPO4jjQEDcxOAOabcPFJdSvbxeTEzkpHu3bBngZ749auaEYDrlrHd2cN5FLKsbRys6jDEDOUZTn8cVrBc0kgnLli32IdS0670jUprDUYfJuYG2yRlgdp+oyDVWtjxbY22meL9UsrGPyreC5ZI03Ftqg8DJ5NV9C0o63rNvYC5htfNbBlmYAD2HqT0A7n86lajT0uZ9FbXiK5gjuBpdlposYLNih86NftEjd2kbGef7o4FO8Gada6t4y02x1GLzbaeXbIgYrkbSeo5pwXO0l1FOXJFt9DDor0XRNB0PX0sLkaSlrGNbFjJFHPKfOiKbhuJY/MCOq7Rz0pvhPwvo+pz3C31n5oTWVtV/euuIikhK8H1Uc9eK1VFu1nv/AMD/AOSRjLERje62/wCD/keeUV6PqugaE/hKe8s9JS0uP7NS8V1nlfa3n+XtAZiMEAnnPJ4xXnAGSATj3PaolBxdn/WrX6GlOopptf11/UKK0p9MtIrd5I9csJ2UZEUaXAZvYbogPzIrNqDQsDT7w6eb4Wk5sw2w3HlHyw3puxjPtVeuxs7y6u/hbrC3VzNOIbm1jiEkhby1G7CjPQewrnI7qwXRZbZ9OL3zShkvfPYbF4+XZjB78+9Snq12/wAl/mKLuijV+z0TUdQ0u91G0tjJaWIU3EgYDYGOBwTk/hmqFdPo1lp9/wCB9enn0+H7Xp6QvDdLJIHO+TBBG7aeOPu1pFXv6Ezly29V+LOYorpPDeh6fqNnqMt5f2oeOykkSNxMGgYMAHbamCPYE9elSWXh7TJfD+pzvrOnySwmHy5gtyFiyxByPLGc9Oh/CpehZgppt1Jpsl/HGHtonCSMrqShPQsucgHpkjGeKq10ngjC+M4LIsJra7D2020HbJGyn1AOOAex4rn50EVxJGpyFcqD64NAEthYXOqX0dnYxebPISFXIHbJ5PA47mmXVs9pcNDK0TOuMmKVZF/BlJB/Oui8CRAazLdJNG08NtMY7TkPMfLYcHG0de5zxwDXL0PewIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKu6bqZ0yRpI7aCWRlK7pd/AIwRwwHeqVXtP0mbUg5hmgTYpO2STDNgZOFGT074x70AQR3Xk36XUEUcZjcOsYyVBHbkk/rVpdYl2zpPbwXEU8pmMcgbCv6gggj061XsLGbUrxLa32hm6sxwqj1PtU8ejys03nXEFvHDN5BllLbWf0GAT2znFAFa9vJr+7e5uCC79gMAAcAAegFQVLdW0tndSW9wu2SNsMM5qKgAooooAuaRdx6frljeTBmjt7iOVwgySFYE49+K0Y9M0e6t7q6gvNSMNsA0rfYovkDNtH/LbnkgcVhVu6N/yKviP/rjB/6PWgCnq95a32sCa28w26xQxAyqFYhI1QkgE4ztPeql35P22f7L/qPMby+v3c8deelRptEi7+VyM/SpLswtezm2G2EyMYx6Lnj9KAIaKKKACtG+1u6vprGV9kUlhBHBC0QIOEOQTknnms6p7m1NvHbsW3efF5g46fMRj9Kak1sBrah4ru7+1u4Ra2ls18yvdzQIwe4K8jOWIHPJCgc1Q1nV59b1Jr67SNJWVVIiBC4VQo6k9hVGihtspzk92FbMeq2lz4ZGl6kJlktZGks5okDY3feRgSMKTg5GSOeDWNVkwWo0xZxeA3Rk2m28o8Lj727p+FFrpkXs0W01oJpTaf8A2baGFmDsSZdxcDG77/X9Paki125ivrS7VITJaQiGMEHBXBHPPXk1mVY+xSjThenb5Jl8oc8lsZ6fStFUm9V0I5ILfqTWmqNbWUtpJbQXNvI4k2TBvlYDGQVIPQ+tUaKKzcm9y0ktjc0XxP8A2HaXEEOkWFw11C0E8s5m3SRsQSvyyADoOQAfesaZ1lnd0iSFWYkRoSVQegyScfUk1o3ui/Y/Dmmar5+/7e8y+Vsx5flkDrnnOfQYrLqpOWifT/hyYqOrXX/hgoorVt9F8/wteaz9o2/ZbiODydmd28E53Z4xt6YqbNq5TkluN0rXJtKt7q1+z293aXiqJre4DbWKnKnKlWBHse9aWmeIHuPGEeu6nexWZtiGVI4C2UUYEUagED5eBuIx1zmuaopLR3CyLOo3S32qXV0ieWs8zyBP7oJJxUmlagul3yXTWVveNGQyJcGQKrAghvkZTnjuce1UqtadYPqV4tvHNbwZ5MlzMsaKPXJ6/QZJ7A04vltYJWkncs69rZ1/Unv5rG1tbiVi8rWxkxIx7kO7Y/DFZlX9b0ifQdZn027eKSaAgM0RJU5UHjIB6H0qhSTvqgSSWhpalrlxq9rbpfxQy3EA2i8IbznUdFY5w2PUjPHWo9F1afQtZttStEjea3bciyglScY5wQe/rVGimm07oGk1Zm1YeKtQ03T1tLQQqEv1v1kKksJFGAOuNvtj8a04fiJf2jqbHTNMtVF39sZI45MNLhgSSXJwQ3TOBgYxznkqKpVJJWT/AK0/yX3EOnCW6Ogl8Y6hLpLae0NsImsxZlgrbtgk8zP3uuf07Vz9FFS5N6sqMVHYKKKKRRu2nif7JoMukjSNPlgnZWlaQzb3Zc7WJEgAIz2AHtUi6rBZ+BZ9JF0l1LeXCTiJIiBbbRySxAyx4GBkAA881z1FK2/mJKwVvaZ4p/svR7nTk0XTp4rtVW5eUz7pQrblztlAGD/dArBoqlJrYUoqW5at9QuLNrn7IwhW6jaGRVGQUJBK85PYc9femRXtxBZ3FpFJtguSplTaDu2nI56jr2qCikUbOiapaaLDcXkYmfVDG0VuNgEcW4YL7s5LYJAGMe9Y1FFAGt4Y1aHRdfhvbpJHhVXRxGAWAZSuQDgE81n3S26XDCylllh42vLEI2P1UMwH51DRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVr+Gf+Qu3/AF7y/wDoBrIqxbX95ZqwtLqeAMcsIpCufyo6AbGhG1WCGOO7iiu57lBIsivnYGBCghSOT7joKddyW0k11ps5lfN+0sUltHu3MeChDbeenPNYLXE73H2h5pGmzu8wsS2fXPWpItRvYPM8i8nj805fZKw3n1ODzR/X5AXPEkqTeIblo+ilU65wQoB5+orLoooAKKKKACt3Rv8AkVfEf/XGD/0etYVbujf8ir4j/wCuMH/o9aAMRCokUuMqCMj2qS7eKS9ne3XZC0jGNcYwueB+VRoQJFLjKgjI9RUl3JFLezyW6bInkZkXGNqk8DH0oAhooooAKsXNt9njtm8zf50XmYx935iMfp+tV6nubdYI7dlff50XmEf3TuIx+n60AQUUUUAFb01xNP4EiE8skgjv9ib2J2r5fQZ6D2rBq6dZ1RoTC2pXhiK7Shnbbj0xnpWsJqMZJ9TOcW2muh1iXM02rQ6e8jfZH0nLwj7rHys5I7ngc+1ZA1G/j8ER+XeXKqLwxfLKwwnlj5evT2rDF7dCUSi5mEgTYHEhyFxjbn0xxilt767s1dbS6mgWThxFIVDfXHWtp4jmb87/AJ3MY0OW3yIK7Z77UNE+H+gT+HJprR7u4n+2T2pKvJKrYjRmHOApJC9DknFcTV3T9Z1PSfM/svUbuy8zG/7NO0e/HTO0jPU1hTny38zapDmt5HoFjrOrWGj+D4o7ma2kutWn+1qvyNIfOQFW9vmOV6eo4FXL27svC+m+bp95e6av9u3QuTp9qsnmGN/3cTkyJhdpOF5ByeOK8vbUr5vJ3XlwfIkMkWZW/duTksvPBJAOR3qa117V7Geeey1W9t5bht00kVw6NKeTliDyeT19a1jX5Ul/XT/IxdD+vv8A8/wO0u7tLHw74h1XwrBcaVcNq6xS4Xy57W3KkhOMmMGQY4I6Ae1T+Gb6CXw9qN54xWa5DajZmQzr97KMEaTOCy4wx7sPrmuBt9Y1KzvpL201G7gupc+ZPFOyu+Tk5YHJyeabcapqF2JhdX1zMLhw8wkmZvMYDAZsnkgdzUqqkvkvwsOVFyVvx6mh4tfV28UXi+IZC97G+08/KF6rs9Ewcj2NR6J9h2zfbv7Lzkbft/2r3+75P9fwqhc3t1eeV9suZp/JjEUXmyFtiDooz0A9BUFY+h0JWSRo6z9k+0p9h+wbNnP2H7Rtznv53OfpxVBP9Yv1FNqa0vLmwuVuLG4ltp0ztlhcoy5GDgjmhaMbOo8cfaP+FoXX2IZuPOh8oYB+fYmOvHXHWsXxJ/ax8QXX/CQjGo5HncKOdox93jpjpSHWri/vIZPEVxfarBCSRFJeNnnsGYNgHAzgVDq+qT6zqs1/dBVklI+VAdqgAAAZ9ABURVopAtEUqKKKoAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtTRbGy1CWSK5ecS+W7IIwAo2qTkk59OmPxrLrZ8NKF1B5pJYIoxFImZZkTkqQOCQTR0YEFra2g0iW9vI55Cs6xKsUqp1Ukk5U+lPs7G0lt2up47honuBBDDE43knk5JXBwPbkntT9Oj1G1cC01OG2US/vAL1FUEY5I3YYfTPTFabX9rdW9/DpjwQSfajJAZXEQCsoVmXOADx064NP8Ar8g/r8zA1aw/szVJ7TfvEZ+VvUEZH6GqdaOu3MVzq0jW7+ZEipGrj+LaoGf0rOqVsAUUUUwCt3Rv+RV8R/8AXGD/ANHrWFW7o3/Iq+I/+uMH/o9aAMRCFkVmGQCCR61JdyxzXs8sKeXG8jMiYxtBPAqNGCyKxGQCCR61JdyrcXs80abEkkZlX+6Cc4oAhooooAKnuYI4Y7cxybzLFvcf3TuIx+QH51BU9zFFFHbmGTeZIt0gyDtbcRj24A/OgCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiitrw4YZLqS3mtYJd0Mjb5E3MMISAM8DnnOM+9HQDForb0pC+jyi0Fk141wqqtx5RbbtPQSe5HSl0LjxIltfWUDvLKVkEsX3OuQF+6Py+mKOtg6XMOinPxI2PWm0DejsFFFFAgrd0b/kVfEf/AFxg/wDR61hVu6N/yKviP/rjB/6PWgDERtkisRnBBx61JdzC5vZ51TYJZGcL/dyc4qONtkisBnaQcVJeTm5vp5yuwyyM5XP3cnOKAIaKKKACp7mOGOO3MD7meLdIM52tuIx+QH51BU9ykCR25gbczRZl56NuPH5YoAgooooAKKK6bVfDGnaNY2rXurz/AGu7sVvIVjst0DbgSE83zM54wTswDScktw62OZors5tL8PJ8M7K9M92l1LeyqZVsULMwjU+WT5vCAn73U5+7VZ/CumWXh/SdV1jW5rddUVjHFBZeaybWKsTmRRtHHPXnpxmp51172Dpc5Wiu1svAdhdro6HXmW41kSfZEWy3D5WZQXO8bQcDBAJ5PHGTmx+GLWz0WHUvEOoy2KXU7w28Vvaid32HDscugVQcDqSfSj2kb2HY5yiuutvCGlPpmn3t3r8kUeo3klrbiOx3/dYAO2XGFOQT1Iz0NRXXge4gs1aO5Et2mqHTLm3EeBFJn5GDZ+ZW9cChVIsX9fn/AJM5aiuytNFs9D1jX7kTpqMehLtiaSLask5baDtyeFbPfnAq34PVNS07VtS1W1W+likEs81zEJWlQI2Y0Jzh+hyMYHfiqTTV12uOzvZnBUV0OneFZLm+u7O+XUFurcI32fT7H7Y5DDOThwoAGOc9x71T8SaFN4c1yXT53Mm1VdHKFCVZQRlTyp55HY1bi0uZ7Ec8XLl6mVRRXT+A7FdR12e3NvFLI1q/lSTxCSKF+MMwORjtyDyRSSuNuxzFFdivhQ6943a2hUaXaXhmngGwMxSPdkLGCDuyp+Q4x+FZdvp+gPrdhCmpXs9rM4WYPYKkiHdgLt80gg+obI9KUfeaXcJPlTfYwqK7bV/DWlal8Un0LSLua3+0ahJA6tZqsdv8xwExId469QtZsmlaTpmsQwW2ry3d9b3scUsf2PZEx3fMUfeSQCMcquc5FEfet5jl7ra7f1+hzdFdN411G6uvGF/a319dPaQ3jBYy5cRDOPlUnHTtxUvjQXcK6E8mqSX0J09JLRmtUt3hjyQFIQnJGOuTTjrDmFJ8s+U5Siut1K/vNR+GtrLqF3PdSDVGUPPIXIHl9MmuSpdbD6XCiiutna1u/hg1wmm2VtNBqUcAlhjO9l8tidzsSxye2ccDAFJuyuHWxyVFdMhOveC7ya7bfeaO0ZjmY5Z4XO3yye4U4IznGSOlY6Wti2iyXL6iEvllCpZeQx3px82/oO/HtTYdCjRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVp6HeWdhdPPdvODsZFWKINncpGclh61mVLDbT3JYW8MkpRdzeWhbaPU47UAWoV0kODNPeYV+iwL868f7fynr61btdYt28Stq195qYk3rHCgfPGMElh2xzzWbbWF5eKxtLWecKcMYoy2PypYtOvZ5JI4LO4keI4kVImJQ+hAHFAEdx5Pnt9md3j6hpECn8gT/OoqVlZGKuCrKcEEYINJQDCiiigArd0b/kVfEf/XGD/wBHrWFW7o3/ACKviP8A64wf+j1oAxI2KSKwGSCDipLyZri+nmdNjSSM5X+6Sc4qONisisBkgggVJeSvPfTyypskkkZmTH3STkigCGiiigAqe5W3Edv9nOWMWZfZ9x/pioKnufs/l2/2fO7yv3vX7+4/0xQBBRRRQAV2Njr+haVpN/a28uqX0F3bFV0y8gj8iOcgDzd4c8rgkEIp6DIrjqKmUVJWYLR3Ojg1fSrnwTHouoveW89tdvcxSwQrKsm5ANrAupXlRyM/Sotb1y21Lw5oFhAkqy6bBLHMXACsWfcNuDzx64rKbT7pdMTUGhYWjymFZT0ZwASB+BFVqXKm7+f6W/IFt/Xf/M7LTvF9haah4SnkhuSuiqwuAqrl8yM3yfNzwe+Khudf0bW9IgsNYN9aGyuppLea1gSUyRytuKsrOuCD0IJ6njvXJ0UvZxvf+tdQ2/rsejCfQLXwZ4aub86gLe31K6lt1iiR2kRXU7HyyhSfl5Ge/FT+E9fvVvPEvinUbIpps6NcoXU+X9qVwYVVscsCSOPqa8yoqXSTTVx3/r7/APM6Dw5qELyajp2pziOHVYthnkPCShtyMx9M9T75q5p2s2elWVrY30tzBc6deNcJLp7RzLMGUAqW3YHTGRuGCQRXO6dp1zqt/HaWabpX9TgKByWJ7ADkmrlr4a1DUJbgaWsd7HA+wzRyBEdsE4XftLHAPAGeK22FudLdeLdC1O11W1ul1G1i1OWC4doIo3ZGQYMXLKGT0PGD/DUU11YeLfHlrc2ul3EulQwRR3Ec0mzyo0TaWZweAMZzkZx2zXM2+jXFzod7qqPGILOSOORWJ3EvnGBjHb1rPrRydlF+X5afgzJQjzOS3/4Ys6itsuqXS2BzaiZxCc5ymTj9K0dD1WztNO1Kwv8A7RFHerHtuLZQzxsjbh8pZcg/UdKxat6dpl3qtw0NjEHZEMjlnVFRR1JZiAB9TWaT2NX3On1fX9A1+6tZb+XWIGtoGhWWOOJ2LA5WUjcuSSTuXI7HdxzX8QeJrO/l0Z7YXF7c2GWuNQvI1jnuzuBVW2s3CqAASxPPbFc3eWk9heS2l5GYp4WKOh7EVEiNI6pGpZmOFVRkk+lCeqaE0rNM7RvEuhwfEq38UWrag8T3rXVxbyW6K0eecIwkO/knqF7VzUVzHL4lS6zsie7EmX42gvnmq17Z3GnX01neRmK4gcxyISDtYHBHFMt4WubmKBCA0rhAT0yTiiOjVug5a3v13/H/ADOg8WWsT+LLy9ku7d7G5umKy2lxFO+0nOdivn88VL4m1TRtYsdKh024vjPYWiWgFxaxxpIASdxYSnb16YP1rJ1rRf7FupLaXULS5uIpDHLFAJcoR6lkUH8Caj1PSjpkdo5vrK7+0wiXFrOJDFn+B/7re1OOkLLbQmavO73NrUIhZ+ALawluLWS6/tFpPKt7qOYhTHgH5GPeq/iDTrPTtD0hfsbWWqurm7ieQsxGRtZlP3CeeOOK54Ak4AyTWpqXhzVtHsoLvU7J7aK4YrH5jKGyBnBXO5eCDyBUt9/66FLR2Muumh1PRF8DyaNJc6gLmS5W7LLZoUDBCuzPm5IyfvY/CqE3h9k0OXVbbUbO7ghkSORYhKGVm6cOig9OxrIoavoHZnRebFo3g+4tfPhmvdWdC6QyrIIYUO4bipIDM3bqAOcUi6daQeBZrrULJ4L+W4T7FO8hBnjx82E/uj+96sBmuerU/wCEb1caE+sPZOlgm3MrkLkEgAhSckEnGQCKba1DYy6Kvy6ROmjx6nFJFcWzNskMROYH7K4IGM9iMg+tUKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtvwxPKNQaASv5JhlYx7jtJ2HnHrWJV3TdTOmSNJHbQSyMpXdLv4BGCOGA70dGBPZT2T6U9jdzTQNJcLJ5iRB1AAI5+YetLHpF4dYbShLgRPvdwx2IAPv/lUMWpRwsGGm2bFX3pu8z5enH3+Rx3zUkOuzxx3aTQw3P2xg0zSbgW9sqw49qOtw6WI9bvI77Wrm4gz5bNhSerADGfxxmqFSTSLLMXSFIVPRELED/vok/rUdCAKKKKACt3Rv+RV8R/8AXGD/ANHrWFW7o3/Iq+I/+uMH/o9aAMSMlZFKjJBBA9akvJJJr6eSdPLleRmdMEbSTyMGo4ywkUpywIx9akvHlkvp3uF2TNIxkXGMNnkfnQBDRRRQAVPctbmO3+zjDCLEvu+4/wBMVBU9y8Dx24gXayxYl46tuPP5YoAgooooAK7tpYdb0IReFrPTAbXTsXljPZR/aSVHzzpMVy3XP3wwx93FcJW5L4x1ua3mia5hUzwiCWaO0hSaSMADa0qqHIwoByecc1E4uS0Bb3N651m6T4S6cFisTu1CaE7rCA/KI055ThufvfePrS6newaD4K8LTWGl6a11dwyvcTXFlHMZAshAB3gjvyevA5rl7TxDqVlpUmmxSwvZu5kMNxbRzKrkY3LvU7TjuMGoLvVb2+sbOzupvMgsUZLdNijYGOSMgZPPrmp5Hf53/D/MFsl6/mej6R9hkuPBlm2jaWU1hZTeM1mjM4MjgAEjK47EEHgc8CsXUUg8K+E9Nm06xs57i+urkTXF5ax3BCxSbFRQ4IUYOTgZPHNc1B4k1W3m02WG62vpYIsz5aHygSWPbnknrmn2ninVrOGSGOeKWKSbzzFc2sU6CT++qyKQp56jFT7OSd/X89B3018vydzrbS5hg8N+G7mHRdMkm1LU50nMllG+5PMXEY3A4HzcY5GOD1q9F4X07Wb6/wBAsbe3SbR9ayZAoDvZs+GDN1bYe5J4Nc6fH17B4d0+2sZNt/DdT3M801rFIC7sCrIWB2sPm5AGM8VT0LxBbaJY6pdrPeS6xf20lsMoBGgcjc5fduZsA8bevep5ZpXX9bW/rzDpbv8A8H9H+BqJfW16vjPUNLtobcNGqW0cEYjCQGTacAf7IGfrT/CEkem+HTJeXAhbUrlorF2TKQTKhAlY/VwvoOp6Vymi6s+j35nESzwyI0U8DHAljb7y57fXsQKnt/Ed5pu+HSHaC083zYorhY52ibGNwZk4b3UA10JJK3lb+v63Bu7v5/p/XyOwEKeGPDniy3s40uPs9zaKPtcaTBWIOSVI2tgkjkVg+MdMjk8Q2X9j2BSTULGG5NpbRn5XdcsFQdBxnA6VUXxrrypKjXkcqzqizCa2ik84Jnbv3Kd+M9Tnt6CjT/ELN4mGua1d3clzERIn2dVUyEDAQnICJjjgHjjFbympRSfl+Cf5nOqclNy/roYbo0cjJIpR1JDKwwQfQ10/gkwWb6jqmpbn063gENzCq5MokYKB7AYzxzx71zt9dvf6hcXcgCvPK0jAdASc/wBam07Vr3SjN9ilVVnTZLHJGsiSDOcFWBB/KsYto3kkdjdDSNB8ZWWo67jVY76CW4kfYssYLlhFIIzgFcBTsJP6VVuTqVhrWhag8ejT21xJttryysYliuBvAbMZQYZScfMgI7etZI8a695m+S9SY7XTE9tFINjfeTDKRt4Hy9BgYFUtR17UtVa2N3OoW0BFvHBEkMcOTuJVEAUEnkkDJpx91p9iZLmTXc7iacav8dlsdRtrOW2TVpIzGLOJfMXcfvkKC/T+LNc/eaz9o8QjT4dP0+2tYtQQQeTZokkaqxUAyAbmyOu4nJFUZvGGtXGr22qyXEP2+2fzEuUtIVctgDLEIN54/izWZFeOmpJey/vHEwlbtuOcn6Uoact+n/AKm3Jya6/8H/M1fFzmLx1qkihSVvHYBlDDhu4PBHsa0vGMVm3/AAjk8kUVoLrTI5bl7O1jTcxZstsXapP5VlazrdpqOsPqlnYy291LOZnE8yXEZJ5wEMY4+uaZqnifU9ZtI7bUGtXjhUJHssYY2jUdFVlQED2BxThZU+V76EzTdTmW2poeILPRYNE0mS0nuBM9oWX/AEJE8794wy5EhIPbo3AH4P1D/klej/8AYQn/APQVrla15/FGp3OlDTZTaG0XO2NbCBdpPUghMgnHUHNRJN7d/wBR9V5f5WL9h/yTXV/+v6D+TVz7Wdylml09vKttIxVJihCMR1AboTWtJrdlH4auNJsLC4i+0TRyvLNdLJyoPAAjX19TSX2tQnwva6JZvcyxxzG4kkuAF2uRjYignC85znknoKfVv0/JDWyXqYldRoX/ACT7xV9bT/0aa5etax8Talp2mvYWptBbSY8xJLGCTzMHI3FkJbBPGScdqHqrITNDwkd+neIoJhutm0x5Gz0DqwKH65PFZtjPcR6HqEcWkwXUD7fNvHt2drbnja44TPv1pf7ZSHw++mWNs0LXLq13O0gYy7fuqAFG1QeccnPep7DWodN8M39lbvcyXGoARyowCwxqGzkcksxxjoMZPWm+o109TDooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAq9p+kzakHMM0CbFJ2ySYZsDJwoyenfGPeqNa/hn/kLt/17y/8AoBo6MCpa6d9os5LqS6gt4kcRky7zkkE8BVPpSQ2UUpfdf2sSq+1Wff8AP7gBScfUCp7C8eO2SzksI7qCacOA+8Fm6YUqR6+/Wn3kEWl63MkVst5bpKUQS7sEjGRlSMkZxT6h0KN5aS2N3JbXAAkjODg5B9CKgrU8SKya/cb3ZmbaxDAAplQdvHp0/CsupWwBWv4atYbvVHjuY1kQRE4b1yKyK3fCX/IYf/rif5is6zaptomWweKLO3s7i3W1iWIMhJC9+aNG/wCRV8R/9cYP/R61P4x/4+rb/cP86g0b/kVfEf8A1xg/9HrU4dt0k2EdjEjLCRSn3sjH1qS8aZr6drkbZjIxkHo2ef1qOPd5i7PvZGPrUl4ZjfTm6GJ/MbzBx97PPT3rcohooooAKnuZIZI7cQJtZItshxjc24nP5EflUFT3MsUsduIY9hji2yHAG5txOffgj8qAIKKKKACtu60iK08JwXlxYaxBezTDZNLbhbSSIgkbWPJbv6YrEru20HV1+EOxtKvgw1X7QQbZ8iLyfv8AT7vv0rSEbxk+y/VGc5WlFHKHQNYWze7bSb4WyKGaY2z7FBAIJbGAMEH8a1PCnhO513UrY3lnfJpkokzdxREJlUYgByCvUYrtbaWSbx1pdvK7ND/wjWzyyxxgwMSMfWptGt9Qu/E3h7UdOVzpEWieS0yH92pEbBoyem7fj5evGe1dHsYxk/K6/wDSv8vxOV4iTj20v/XmeW2+jand2Ml7a6ddz2sWfMnjgZo0wMnLAYGBTf7K1AfZf9Auf9M/49v3Lfv+3ycfN17V6Xp1w72XhK+0PRNR1c2EBj/0O6CRRTFj5iyr5TbcggkkgEH2zR4Vley0M297Mtjc6zcTHQonUN9kYqy+YG7BiwQfmKn2Kvb+nt+fQv28rXt/Wv5W1/4B5bPBNa3DwXMTwzRsVeORSrKfQg9DUdS3VtPZ3UttdxtFPE5SRHGCrDqDWzpWp2Vrp6xXFz5bgklf7Etrnv8A35GDH6dq5TrMGr1pomq39s1xYaZeXMC53Sw27uoxjOSBjjI/OotRmjuNQllgfejHhvs6QZ4/55oSq/hXp/w7lePw/ogR2UHVbsnBxnFoazqT5IOQdUjzqPw1rst5LaRaLqL3MIDSwraOXQHoSuMjPvVuw8PrLofiC51Bbi3u9KSIrCw24ZpArBwRngfSvQLvSFv/AA7BPbae2s366Tpyrp3myKhBDfvWWNlZsdM5wMkmrmp3NvpOpeI7u+sILxIdO0x5bdZCY5GDL/EclhwOpOcc5rJ1Xfl87DWuq8vzR5Iuhau9xbwLpd6010nmQRi3fdKnXcoxlh7irGmeG76+8U2uhXMM1lczSqjrPEVaJSMlipweF57V6JbwTrqfiWW6N1qsmvWKy6bLBKIpbyHcC8aNtYB1XAKAZwpAGKksXa2C6prOj3uiRaJorwQS3TLPcMZHMcZKkR8j5wAcZH503WaV7f1r+ug+W+39bf5nn+o6FbaD4wOl37y39oGTbLbuITKjqCrAkOB1HGDS+JfDh07xpqGi6LFdXi2zkIu3zJCoUEk7R257Vu+K47W80vwprthJNLbCIWEs08QiO6FuCwDMASp/vHgV0f8AZ+owfHPUbgW89ut1Dcm0ndCiyEQdVY8HBxyKXO0r9lL52sT1+78dzhNA8JXF14ttNI8QWl9p63Ecj4eIxOQqMwI3DplcdKybrQ9WsbiCC90u9t5rk4gjlt3RpTnGFBGTyR09a9O8JQXGkJ4WsdVWS31Rbq9uIoJlKywwmBhkg8qC6kj1xmqHhaCLVvCugJqd5LEH8QyAziYo4Ji3YD9izADPXJp+0ak30Vvzf9fIb0X3/wBfh+JyGneFr7/hJtL07XrC+0+K+uFizLC0TMpYAldw7Z9DVXXNBvtFvJftFjdwWjTOlvNcQsolUHghiAG4weK9P06wnstL0cXOhRaIT4nhaO2DyM+3aw3MJHYjOMZGAcZxVe1E2ivq0vi1WitLnxDbzWzTniXEpLyJnquzblhxjil7Vtr+u3+YNWv/AF/N/keZXWg6vYxwvfaVfWyTsFhaa2dBIT0C5HJ+lamseB9Z0S0sbm8sroRXMKyyyG2dVtyzlQjEjhuAcHHXHvXVeLHvrXS/E6yeHtTFvfXSSvqF5erJDkSfI8Q8pd2QccMcDHpWT4m0+8utI8L6na20s9jDpkMUtzEhaONxIwKsw4U5IGDVQqOTj5v9Lg1a/p+oaz8N30jV7+zOpedFa6Y+oJMLfHm7GClMbuDnvk/TmuTbSdRS5mt3sLpZ4I/NliMLBo0wDuYYyBgg5PrXtmqTxX1l42WRgbnS4riNB/0ymRG/9CjP51lX2n3cvijxLrawN/Zlz4fPkXR+5KTCnCn+I/Kc46Y5rOnWk/i7X/X8irJ/f/kv+CeZN4W8QIpZ9C1JVCs5Js5AAq/ePToO57U+y0q3XQZtX1RpRCZPItoYmCtNJjJOSDhVHXjkkDivaBI7eJpkZ2KnXsFSeCPsFeS6oftXw+0eSD/V2V1PBMoH3Xch1P4gH8q1p1HNO/ZfiK2z/rr/AJGRHoWrS6adQi0u9eyCljcrbuYwB1O7GMDFUK9e8J6QI9S8Nz2emi9tn04vPqs88rCJiHBhQBwgwTjYVJ5J968zsdDuNR0q/v7eW3CWCh5ImfEjKTjKjHIH4V11afIc9Opztoza6QeE7i78Jadqek2l9e3VxLMs0cERkVFQrg4UZHXua5uvR9KsdXvPBHhY6NFNL5OqyyOIsnYdy4dsdFHPzdBn3p0YKd0/L80KtNws1/WjOQ0bSrfWYLi0haWPVEUywAsDHMFGWTGMhsZIOSDjGB1rOtbK6vpTFZW01xIqlikUZcgDqcDtXZ2UsNx8Y7q+sJE+xw3c1y8qH5BGuSzZ9D/WsLQbbUNW8QXCaHfiwuJEkdSZ2iLrnJQFeSfb2rH/AC/r+vI3Wq/r+v8AhzCooPU561o6HbpPqiPP/qLdTPN/urzj8TgfjSk7K4pPlTZHe6c1pexWiuZZ2RC6BcbXYZ29eeop89hZ2upXFtcXzbION8cO4u3GQBuA4OeSe1W9MnMuqXmtXIB+zhp+eQZGOEH5n9Kr6Lpb61qLIzP5aKZZmVSzbR1wO5NZczXxPZa/1/W5lzNJ8z2/P+vzIdS0/wCwtA0cvnQ3EQlicrtOOmCMnBBB7mqsUUk8qxQxtJIxwqIuST7CtHX5LmXUA1xZy2cSoEt4ZEK7YxwBz19/c0vh+WKO8uFklSF5bWSOKR22hXI457d+aak/Z8zHzNQu9ym+nX0UyRSWdwkjkhUaJgWI64GOaU6bfBImNlcBZiBGTE2HJ5GOOa6nTo3guPDUUkqSMsk/3HDgdOMjg/hWHoxN/wCI41u5pAJpGZ9shUu2Dhc++cfjUKq3fy/4P+RCqNpvt/m/8ijJpt9FMsMtlcJK4JVGiYMwHUgYpJ7C8tYy9zaTwoG2lpIyo3Yzjnviux0+KWCxtDLZJYv5twViUvuUeSeSGJIJx7djVLUiW8PS7jnFnZ4z2+9Uqs+a39bkqs3K39b2OTrbGgRfbl05r0jUGXPl+T+7DEZCl85zj/ZxmsSt5tRvY7CDVWhtDOxaBLrDeaCB1Iztzg4zjNa1HJfCa1HLTlKMlhGnh9L0lxM100JUngAKD+fNWJdFijWCNJrqe6nt1nSGG0DDkZxnfn8cVC93CfDEVoH/AH63bSFMH7pQDOenUVajv4L6GI3y6YrwRrChnFxuKqOD8mVqW5r7ybzWvr/wB19oMNnY3UrGZZoIbd9j4GGf7wIx2rIs7V729htogS8rhRgZxnvXQXk/n6Devby200axW0UhjeTK7OAcMgzn68VTsk1iDTiunaRMjTLhruO3dndD2B6AfTGeKmEpKLvv/wAAmMpcrvv/AMBGfqlg2malNauSwjb5XK43jsw9jVStxodZbS/sl3o086RA+VLLbyB4R7EY49jkVh1tCTaszaErrU1YdHFzoK3sUiLMbhoiJZ0jXaFB43Ec8+taE3hbybibKXP2aOxM4mGCpkC5xuAwRn0/OqWlzy3GnzWP2W0nitw92fPMgPAAOCrDt61Jb62s99dXF6I4N9g9vGsasRnbhR3P4msZe0u7GL9pfT+tTLs7VrqXgx7VILB7hIsj2LHr+daFzpcLRf6LHHG+esmrW7jH0GP503QIriO+jvE0y4vIUJUmKEvsOOo4I3DIIzW5fWeowae8Mq6pq7XUKsiz27bbcnPPViHHoMdetFSo1KyHOo1OxxtPhETTKLh3SP8AiZEDEfgSM/nRLFJBK0c0bRyKcMjjBB9xUls9om77ZDNL/d8qYR4+uVbNdHTQ3e2hes9P02+vYbWG+uxJM4RS1ooAJ9f3lVodP86/kg86NUjchpGdEJAOMgOygn2zWvatpmmWdnrUVpdO/nsixPcrgFQDnIj96qaVc6emvJK6NDHtba1w4kCyEHaxwo4zjtWHNLVrp6bmHNKza/p9Qk0SFbiAQ3aTRvIFkzLCGAJA4CyMT19KpXNtBbavPbSSSLBFMyb1UO2ASBxkA/mK2zOzW9lFqV0l3ffbkaNlmEzJH3BcE8E44zVHVGF94iuYrqe3tY0nkHmeSF43HrsXLH6/nRCUm9fMISk3qRtpdo+j3F/a3c7LC6ptlt1TeT2BDnoOaj1mwi0+8jihZ2V4I5DvIJyy5NP1S/gkhisNOVlsoCWDP96Vz1c+nsOwqbxP/wAhKD/r0h/9AFOLlzK/W44uXMr9b/oY1FFFbm4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVYtr+8s1YWl1PAGOWEUhXP5VXrU0WxstQlkiuXnEvluyCMAKNqk5JOfTpj8aAKy6tqKb9l/dL5h3PiZhuPqeeaZb6he2ilbS7ngVjkiKVlBPrwatWtraDSJb28jnkKzrEqxSqnVSSTlT6UzTrGO/v2B3xWkfzyMWBZVzgDOMZJIHTrR1sHS5RZmdizkszHJJOSTSVZ1K2Sz1S5toixSGVkUt1IBxzVakthvRhW34VkSLVnaV1QeSRljjuKxKKmceeLiS1dWOh8Wyxy3NsYpFcBDna2cc1Ho3/ACKviP8A64wf+j1rCrd0b/kVfEf/AFxg/wDR60U4ckVEErKxiR7vMXZ97Ix9akvPO+3T/av9f5jeZ0+9nnpx1qOPcZF2feyMfWpLwTLfTi6OZxIwkPq2ef1qxkNFFFABU9zPHNHbiOPYYotjn+8dxOfyI/KoKnubhZ47dVTZ5MXlk/3juJz+v6UAQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWhous3GhX7XdokTyNDJCRKCRtdSp6Ec4NZ9FJpNWYBRRRTAKKKKACiiigAooooAKt2WqXenxzx2siiK4UJLHJGsiOAcjKsCMg9D1HaqlFABWhFrEsGjy6fbQwwrOR58ygmSVQchSSSAM44UDOBnNZ9FABRRRQBch1W7t9OmsYJFjguCPN2xqGcehfG7HHTOKk03V5dJWZrOGEXMilFuWUmSIHg7edoJHGcE88EVn0UAFPSaWNHSOR0WQYdVYgMPQ+tMooAeJ5VgaFZXETEM0YY7SR0JFMoooAKmtrmW0m8yHbuwVIdFcEH1DAg1DRRuJpPRli7vri+ZDcuGEa7UVVCqo9AoAAqvRRSSSVkCSSsgooopjCrsGrXdvaC2QwtCrFwktvHJgnqfmU1SopNJ7iaT3LNzfy3UYSVLdQDn91bRxn81UGq1FFCSWwJJbE0d3NFazW8b4inKmRcD5tpyOahoop2CyCiiigZYs764sJWktWVWdDG25FcMp6ghgRUzatcMpUx2eCMHFlCD+e2qNFS4xbu0TyxbvYKKKKooKKKKAJmu53sktGfMEbl1TA4J6nPXtUNFFKyQrJbDo5GhlSSM4dGDKcdCKWaZ7ieSaZt0kjFmOMZJOTTKKfmPzCprq7nvZFkuX3sqBAcAYAGAOKhopWQrK9wooopjCiiigAooooAKKKKACiiigAooooAKKKKACtnw0oXUHmklgijEUiZlmROSpA4JBNY1FAGxp0eo2rgWmpw2yiX94BeoqgjHJG7DD6Z6Yq1Jq2mPezW8Vq62812snmxyiMEDgZBU/LnJxx1rnaKdxF/XJYZtdvJLbmNpmIbeGDc9QQBx/nNUKKKlKysU3d3CiiimIK3dG/wCRV8R/9cYP/R61hVu6N/yKviP/AK4wf+j1oAxIwxkUJwxIx9akvEljvp0uG3zLIwkbOctnk/nUcYLSKFOGJAB9DUl5HLFfTx3D75UkZXbOdzA8nP1oAhooooAKsXNz9ojtl8vZ5MXl5z975ic/r+lV6sXVw08dsrJt8mHywf7w3Mc/r+lAFeiiigAooq1a6XqF9DLNZWNzcxQ/6x4YWdU78kDigNyrRRRQAUUVJb2813cJBawyTzOcJHGpZmPsB1oAjoqZbS5cyhLeVjACZcIT5YHXd6fjUNABRRRQAUVLbWtxe3KW9nBJcTyHCRRIWZj7AcmmOjxSNHIrI6kqysMEEdiKAG0UUUAFFFFABRRRQAUVNcWd1ZiI3dtNAJoxJF5sZXeh6MM9QfUVDRsAUUUUAFFS3NtPZ3DQXcEkEyfejlQqy8Z5B56VFQAUUVOlldSWcl5HbTPbRMFknWMlEJ6At0BNAXIKKKKACipXtLiK2iuJIJUgmJEcrIQrkdcHocVFQAUVNa2lzfXCwWVvLcTNnbHChdjj2HNNngmtp3huYnhlQ4eORSrKfQg9KAI6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtrw4YZLqS3mtYJd0Mjb5E3MMISAM8DnnOM+9Ytaeh3lnYXTz3bzg7GRViiDZ3KRnJYetHRgWNKQvo8otBZNeNcKqrceUW27T0EnuR0p9hFILW/Ux2S6gZ0UR3KQqV+9u2q/A5xwBVCFdJDgzT3mFfosC/OvH+38p6+tS3F3Y6lfTXd+9xA8ku7ZDGrjbxgZLDB9+aP6/IOhRvEmjvJUuoxFMrYdAgTB+g4H4VDVvVL7+0dSludmwOQFXOcAAAc+uBVSktgCiiimBe0O2ivPEOnW1yu+Ga6ijkXJG5S4BGRz0Naa6iiRyx23hqEQTcOqy3W2QA5GcSYPIzWZodzFZ+IdOubltkMN1FJI2CdqhwScDnoK6O21HW4bN107x3cx2dqAMQzXqpCpOFGAmFHYUAYWuW8EOtiOyhW3jkht5FjVmIQvEjHBJJ6se9UbyKSG+nimfzJEkZXfOdxB5NXtclgutaX7HOs0Yht4RKqsoYrEiEgMAeoPaqN5E1vfTwyPveORlZv7xBxmgCGiiigAqxdTvNHbLImwRQ7FP94bmOf1P5VXqxdSzSx2wmj2COHbGcEbl3Mc+/JP5UAV6KKKACu0u5NKT4Z6f/od5iS8lwBdr/rAijcf3fI9uCPWuLrUn1nzvDFppHkbfs1w83m787twAxjHGMetUnaMl3t+aLg7O/r+RvR+FNLN9b6NJNdf2pPY/aROHXyVcqXEezbk/KMbt3XtVSfSdD0zw/pF/fi/uJdQRmaKCZIwgVyCclGz24+vNOj8ZIkkN62nFtWhs/siXPn/ALvGNocx7cltpx97HfFZOpax/aGk6XZeR5f9nxPHv358zc27OMcfrWs3DXl/pXf6WLvC3y/y/wCCZ0mzzX8nd5e47d3XHbPvXR6djTfAeoalCcXV5crYK+OUj273wf8Aa4B9q5qtzRtQtX0a+0XU5hbw3BWaC4ZSywzLnqFBOGB2kgHHHFYdGjHrcZosaTafqarLdwyx2rSkxT7UkUEDay456nvTrPTdO/sm0u737U73Ny0GyJ1UADHzZKn16d/UY5i03UrLTYbqKS1muWuImgeSO4CKVJHKgoSDx3/KozqqCytrWK3ZUtrlp1LSZJBx8p4Hp1/SuuMqdlft/wC3f5HNKNS7t3/T/M1bCzs9PuNdtLmGWZ7aGRd6yquVDqOAVOD7/hiublMZlYwqyR5+VXbcQPc4GfyFav8AbqNq2o3c1oWhv1ZJIllwygkHhsdQQO1ZUpjMzGBGSPPyq7BiB7kAZ/Ksqkk1G3Rfqy6cZJty6/5G74Iit7nxZZW0730ElxKscVxY3QheEngtkq2eOwx9aytVjMWs3sZkeUpcSKXkbLNhjyT3JrW8Fy2Fj4js9T1LUoLOKznWUxvHKzyAc4XahH5kVjahcLealc3KAqs0zyAHqAST/Wplbkj31/S36jjf2j7WX6jrK0huy4n1C2stuMGdZDu+mxG/XFF7aQ2rIINQt70MMkwLIAv13ov6ZostUv8ATS506+ubQyY3mCZk3Y6ZweaL3U7/AFJkbUb24u2QYUzys5Ue2TxWZqb/AIBtZJtVv57WPzL20sJZbRcZImyFUgdyC2R71oeNUguNA0K9nvft11G8tndXgOWnKFTkE/eC7ioY9eD3rnPDmvS+HtUa6jj86OWJ4Jot5QvGwwQGHIPoexqxd6ousf2XpenWsdnZ2W7yku7pTuZjuZnkO1ecDsPSocW5r+u5Fmnf+tv8zN1T+zf7Qf8AsQ3Rs8Db9rC+ZnHOdvHWq0RjEyGdWeMMN6o20kdwCQcH3wa1/Ftzp914imfSYreOAIin7Mm2JnCgMVHpnP161lWsKXFykUtxFaox5mlDFU+u0E/kDVxLex0XjW1SAaLLDdX88V1pscyJfXPnNCCWGxW2r8ox0xXOW8Et1cx29uhkllYIijuTwBW/4v1Kyvm0i20+4F0mn6dHbPOiMqu4JJ2hgDjnHIFc5Vztzv1M6d+RXOg1qwsPD1u2lSw/atXyDcTMWVLbjOxACNx9WOR6etYC/eH1rXuteGpaPHa6rbG5urcBba9Em11T+4/B3j06EetY4OCDUx0ldmnQ9I+IWh2VnqGp6zqzztLdyrFY29uwAyIky8jEHAGRheCfYc1wsn9lf2LD5JvP7T8w+buC+Ts5xt/iz068da3LzxnFqV9rDahpnm2ephGFuLjDQSooVZFfb16545BxVfUGsrfwVZWckdi2pG4MvmWxV3EJB4kdcjOei5yAOQKuq4t3jt/X/D+hjQjKMVGX9af0vU52uqsYILn4c6vNbz6lA9pLB5sP2sG3uC7EZMYQYI2jqTXK108F5p+meAtTsRqMN3eanLbssMMcg8kIWY7yygZ5x8pNOFuWV+36jqX0t3ItL8Ktf+H7++ae3WSFImgH26BR8zYO8Fsrx0zt59acPCMv/COvem4s/tK3QiAGpW/l7NhJ5343ZHTPTtWPa6nNaaZfWMaxmK9CCQsDuGxtwxz6/WkGpTDRm0zanktcC4LYO7cFK464xg+lZdDU3PByjUJL/Q7k5t7q2kkUHnZKillceh4I9wa5it7R7600XSby8S5WXUrmFraGFVb9wrcM7EgDOBgYJ681g0PcFsdR4TheDTdc1A7WiGnSw7UdWkBYqM7AdwXnliMe9cvW74Vv7Syub+O+nFul5YS26ysrMqM2MZCgnHHYGsaeNYp3jjmSdVOBJGGCt7jcAfzAoe69P1YLb5/5EdFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUsNtPclhbwySlF3N5aFto9TjtUVbfhieUag0AlfyTDKxj3HaTsPOPWjoBmW1heXisbS1nnCnDGKMtj8qbHZ3Uty1vFbTPMud0SxksMdeOtXrKeyfSnsbuaaBpLhZPMSIOoABHPzD1rSNnDpOhXsV8ZHP2xYnFu4UuoXcOSDxznGPSgDnJYpIJWinjaORThkdSCPwNMq7q1oLHUnhWRpE2qyM3UqVBGfwOKpUAFFFFABW5pFxDF4V8QRSSxpJNHAI0ZgGfEoJwO+BzVbw1/wAjZpH/AF/Q/wDoYrooE8VXkC3EfiqzjWUbgkuuwxsvsVLgqfYigDjI13yKoOCxAzUl5Cba+ngZ97RSMhb+9g4zWn4ld7rxArzyFpJba1LuxySTBHkmsy7gFtezwBt4ikZA2PvYOM0AQ0UUUAFWLqSaSO2E6bVSHbGcY3LuY5/Mn8qr1YunneO2E67VWHEXHVdzc/nmgCvRRRQAVK9vIlrHO2NkrMq891xn+YqKrEkc40+B3fMLO4jXPQjbu/mPyoAr0UUUAFXbLTfttneXH2yzt/sqB/Lnm2PN7IP4jx0qlXT+HPLufDPiCK4t7aQW9oJYna3QyIxdRkPjd07ZxVRV7+j/AARUVeSRkaVo8urfaWWeC2htYvNmmnLbUXIA+6CSSSBgCqU0axTuiSpMqsQJEBCt7jIBx9QK67wrqM9v4Q8RrGlsRDBEy+ZaxOSTKPvFlO4exyB2rkZZWmmeVwoZ2LEIgVfwAwAPYU5JJK3b9WU4pQTJ9O0651W/jtLNN0r+pwFA5LE9gByTUVzCtvdSRJPHcKhwJYt21vcbgD+ldD4aIj8NeJZoRm5W0RFI6iNnAc/ljNT+HII7Pwtd6vey20FubtLdHbS472Z32klQspCquDknqcCiMeZ2MJS5VfzOSor1G703StI1LxpLFpdrKtnb201tHPACsTvtJIU9Blvu9Mccjisjwvewalba7f6npWmzyWOmb4lWzjjQuJMhiqADPODjGQMGr9lZ2b6N/df/ACMvbXjzJaafjb/M5XRdHm1zUPslvLDCwjaQvMWChVGT0BPQelRSWUa6hFbQX9rcLIVHnrvSNSTjkuqkY7nGK6jwnqkup+JN08FpE8dhcrutbVIN/wAjH5ggAJ7ZxXL6bdPZ6hFLEkLnO3bPAkykH/ZcEfpURjzVFH0/Nm13yt9Sa50pLTWpdPm1SwKxnBvInaWBuM8FFJPp060azo8uizwRyzw3C3EC3EckG7aUbOPvKDnj0rS+IFtBZ+PdVt7OCO3hSUBIokCKvyjoBwKXxl9/Q/8AsD2//s1S9vn/AJhB8yT8v8jm6K0NGtYLu8aO5i8xAhIH26K05yP45AQfp1/Ktv8AsTTP+fL/AMuey/8AiKRRylFb+qaXY22nyS29t5cgIw39uWtzjn/nmihj+HTrWCrFWDDGQc8jI/KgC9qGlHT7OyuPt1jc/bI/M8u2n3vD0+WQfwnnpVCu41uK3uIfBly1naRyXiZuPIto4llPnY5VAAeOOla99Y2OrXXiywbT7Gzg066hFq1vapG8QM2xvnABIIJ4JIHbGK6PY3lZd3+BzKvaKb/rWx5/p+j3GpWeoXMDxqlhCJ5Q5ILKWC/LgdcnviqFeo3c0Kt430q1sLW0tLK2WGFordUZVWRFO5gNz5xnLEn0pviCDw3pl5qej3U2kQ2sNiEtYorKT7Us4UMrtL5fOSTn5yMEUpU1ZST0t+r/AMgjWbdmv6sv8zzCr1zpM1vpdvqCSRXFrMdhkiJPlP12OCBhsc+h7E13r2tsPh+PEw0WzGrfZhEYfJj8ryt+37V5OMZ/h6YzzXNeGiJPDHiWK4GYBapICTwsocBPxOTWdSHJp8/6/rfTua06nP062OZrS0zRZNStbu6Nzb2ltZhTLNPvwCxwoARWJJ+lZtdRYLEvw71hrKVpJWmt/tSSx7RGu5tuwgndk9c4x6VHRs062OYIwxAIOD1HenQwyXE6QwrvkkYKqjuTTK1tEH2ZbrU2/wCXWIiP/ro3yr+XJ/Cpk+WNyZysrozjbyi6+zbcy7/L2gg5bOMZ6dauWuhXt1dSwiJl8lijuI3kVWHbMatzUmhARXE+oycrZRmQZ7yHhB+Zz+FO0ZoWS9aQ25vSgNubvbsJz833vl3Y6ZqJSlrboZyk9bdBD4bvhfxW20jzc7ZXikjTIBOPmUHOB6Vk111gbceINJwLY3nly/afs23yz8rbfufLnHXFcrcSrLMXjgjgU/wRliB/30Sf1pU5Sbs/61YU5Nuz/rcks7G4v5WjtVVmRC7bnVAqjqSWIFSnS51mhjL2xM0gjXZcxyYJ9QpJAqXRLqK2uZ0nWYi5t3gXyUDsC2AOCRn86msoNPh1e3Vbi8MyTqPLktVTDbhwT5hI/Km5NSsEpyVzPkspo9QeyVfMmWQxYj53MDjin3mmXVioe4jUIWKbkkVwGHUEqTg+xrftbky+O5llEasJJ44Skap8x3BckAZPueapWCRweG9QOpRSmIzxrGiuEYyDOcEg9B14qPaS0+X4i9pJP7vxM2906exvFtX2ySuqsojyc7gCB0681YXw/fm8t7Z0RDcOY0fzAyhh1BK5wR6da2rh4l8fWDN8qbIcbjnHyDHP1xUvhw/Z0gjuoQ0kmqYjD5BUhSGYAHtwOcipdaShfyM5VpKF/K/4P/I5i806Wxht5JWQi4VmXaTxgkc8e1VK3fEP/IP0r/rlJ/6MNYiKGkVWYICcFmzge/HNbU5OUbvz/M6ISbjdmg+jiG3t5bnULWD7RGJEVxITtPrtQjtVS5gjgZRFdw3ORyYg4x/30orqtFjknVftM1rqFpDE0UezTpJShx8o3eTngnPWsPVrd4yRdXVmJo/+WMVo0DHPqPLUfnWcajc7P+vwMoTblZ/1+AiaDO/ko1xbx3Nwm+K2diHYHpzjaCewJFVW0+ZNPe8faqJP5DIc7g2M9PwrXtdSs7l4L29MEd9bKERpJJAr7R8rMqxtnHHRhnFJeqP+ETkk+1xXTSajvZ4g4AJQ/wB5RRzzTswU53SZXt/DN/cW4lZHhz0R7WcnHrlYyP1qnNpd1b2L3NwnlBJhC0bgq4Yru6EdMVs2X2bydO+y/wBm/Z8D7Z9q8vzN2fm+982MdNv86Y8trF4Zuzb26TW7akREJS3yjYcHgg5x60vaST/ruJVJXOdq9Fo99PCskUStvQuqeanmMozyEzuPQ9qo1t6FENPjbW7rKxwZW3X/AJ7SkYwPYdSa2qScY3RrUk4q6MSilJLMSepOTXS6dEkNvoqxWcFwL2ZhOZIQ5OGAwCRxgc8YolLlQ5z5Fc5miuknMNlo97PFa27TDUnijZ4VbYuM4AIx26Hjmm2TD7Ct9dLbRLcXHlokenxylyAM8MQFH07k1Htbq9iPaaXsc7U1raT3s4htYzI5BOM4AA6kk8Ae5rso7CztrprdbOB0N5cJ+8jDEKsYYDJ5GDVN4k8u/W2jRLm40uKXbGgUHlS+ABgZA6Co9vfZEe3vol/V7HPPplzFdQQSqqm4IEbhwyNk4yGXIPPpUN1bvaXk1vIVLwuUYr0JBxxW7agx6No6T8SPqHmQg9fL+UE/QtWXrf8AyH7/AP6+JP8A0I1cZtys/M0hNydn/WpXs7Sa+u47a2XdJIcAE4HqST9Ks3OlPDavcwXNvdwxvskaAt+7J6ZDAHB5wRkcU3Sb/wDs3Uo7lk8xAGV0BwSpBBwfxq8fLi082GmRXcjanKgWS5jEYIVuAvJBOTycge1OUpKWn9d/wCUpKXl/VzNv7GXTrw207IzhVbKEkYYAjr9aNQsZNNv5bSdlaSI4YoSQeM9/rWhrbQXviGTbcxxIqIhkkVsBlQAjgE9QR0q1dXFz9qf7dqel+fn5/O047/xzBmkpytF+QlOVo+hzqqXcKMZY4GSAPzPSr/8AYt55MsqfZ5EhTfJ5d1E5VfXAYmkvITPcIYbm2u5pDtEdpAyf+O7FH5Vs2+nx22nXGkLOi6vdKGZcjaADkQ7uzHr6dBROo0lYJ1LWMC5sJbW1tZ5GQpdIXQKTkAHHNVq29bRo9H0dJFKusMgZSMEHeeKxVUswUYyTjk4H51cJcyu/P8y4SbjdmvF4Y1CS3EjRyRNgnyntZy36RkfrVO60y5srOG4uV8vzXdBGwIdSuM5BHHWultIbFLWFpPsEYhQLJas1rK1wcnJEpfI7emO2azdSmgh8PWlr5drJKJpjhZ/MMIJUjBVsH8c9KwjUk5WMY1JOVv66mfBot/cQxyxwriXPlB5VVpMf3VJBb8BUSafM+n3F38qpbuqOrZDZOe2PatRLy0uY7K+uorxWsFSJvJjDRvt5X5iRtJ+hpftJvPD2s3LKFM13G5UdsljVuc/x/X/IfPPr5GTbWMt0heJ7dQDj97cxxn8mYGhbCVrGe7DJsgkWNhuySTnGMcEcetb1pf3Vlo2nSI93d/aZDGVF1KojCnARQrDBI55z24qW98uGy1iK9mub9IrqJFcz4fgNgFiD06dKTqyvb+t7C9rK9rf1exztvp81zF5kb2yjOMSXUcZ/JmBqb+xLxbm4t5RHHJbwGdwXDZUAHgrkZwRUumaYGUahqIMOnRnLOw5mI/gQfxE4x6DnNXLC+fUtR1q7lGDLYykKP4RxgfgMCnKck3boXKcru23/AATnqKKK3Ngq7pupnTJGkjtoJZGUrul38AjBHDAd6pVo6VpkWpNIjXiwyKjMsYjLFtoz7ADj1z7UdAGxalHCwYabZsVfem7zPl6cff5HHfNLHrM+bj7VHFdrcOJHSYHG8fxDaRj0+lJa2NvJpsl5d3EsSJKIgscIckkE92HpTLeCxlkKPcXIJfbGEt1YsO2cuMH25+tHWwdCG7u5b27kuJyC7nnAwB2AA9MVDVvVLJdO1Ka0WXzvKOC+3bzjkYyenTrVSgAooooAtaZef2dq1pe+X5n2adJtmcbtrA4z26VsW9rpF7puoahHpt4sVlsaVTqK5O9to2/ufX1Nc7XRaJ/yJfif/ctv/R1AGZqd7HqmqiaKJreIpFEqM+8qERUBJwM/dz0FVruFbe9nhR96xyMgb+8AcZqNFDSKrHAJAJ9Kku4kgvZ4on3xxyMqvn7wBwDQBDRRRQAVYumuGjtvtAwohxF7pub+uar1YuvtHl232n7vk/uen3NzenvnrQBXooooAKsSxTLp9vK8mYXdwiZPykbcnHvkflVerEkEiafBM0mY5HcKmfukbcn8cj8qAK9FFFABWrYeJNR0yze1szarFIu2QPZQuZBnOGLISwz2JrKqeCGOS2uZHk2tEgZFz94lgMfkSaabWw02tUSRapdwQXkMMixxXwAnRY1AYBtwA4+Xn0xVSiikF2zQ0XVn0e/M4iWeGRGingY4EsbfeXPb69iBViz8S3ukGaLRJDBaSSrKsFykdxsdejAsmAw/vAA1j1YstPvdTuPI020nu5sFvLgiMjYHfAGapN30Ikote9sXrnxRrF4+oPc3pkbUkRLsmNMyhMbe3GMDpjPeqllqt5p9vdw2c3lx3kXkzrtB3pnOORxyO1bdj4Ou7nQdUkex1AarZzwxpZrCdxDgk5Tbu6DNY0WjapPqL2EOm3cl7HnfbJAxkXHXK4yOtVJTT1/q/wDw5CdNppdCfw9rK6Hqhu5Lc3KNC8TRrJsOGUjOcH19KSC60WLUhM+nXz2yqCsP25A28HqX8rGMdtoPvVX+zb7+0f7P+xXH23ds+zeU3mbvTbjOa2tL8KTvNqUWuWl7YSWumy3kSSRmIsVxjIYcr16fnSgpX5o9P01Kk42s+pT1XWotc8T3WrapayFLmQuYbeYIVGMKNxVugA7c+1N1/WI9YuLRoLZ7aK1tUtkV5RIxC5wSQq88+lUprC8t7WG5uLWeK3uM+TK8ZVZMddpPB/Cq9S77MqNktAooq5pOmT6zq1tp9rtEtw4RSxwF9SfYDJpA3ZXKdOikMMySIFLIwYB1DDI9QeCPY1u6t4bgtNDTV9Kv3vrL7U1q7SW/klXAyCBubKkc5yPcVjXFndWgjN3bTQCVA8ZljK719RnqPekpX1Q9zVu/F+sX1vbw3ElpstiDBssIEMWG3fKVQFRnnA4Peq7+ItUkbUi91k6oQbz92v70ht3pxzzxisyir5pPqSoRWyN248Z69dWNxaT3qtFdRrHcEW8YeYDGN7hdzEYHJJP5moz4s1hrP7O9xC48g2/mvaxNN5eMbfNK78YOOvSsainzye7F7OC6GwfFesnU2vzdqZ2t/sp/cx7DDjGzZt27cdsUyXWEXw+ulWFs1uskglu5Wk3tOwHyjgDaoySF55PWsqipbb3KUVHYK1tJ1mGx03UNPvbSS5tr4R7vKmETqUbIIJVh3PGKyaKQxTjcdoIGeATmrBvpP7MWxCqsQlMrEZyzYxzz2qtRSsmJpPcsi+kXTGsVVVjeUSOwzuYgYAPPQUafcxWd/HPcWy3Ua53RMRhsgjuD656VWoo5VZruLlVmi/52k/8APle/+Bif/GqoHrx0oooSSGlYltZ/s15DPt3eVIr7c4zg5xV65vdLuruW4ksbsPK5dgt4uASc8fu6zKKTim7icU3ce7J5xaAMiZyoZskfiAP5VJc3t1eMpvLmacqMKZZC2PpmoKKdkOyLuqah/aV4J/K8rEaJt3Z+6oGentT7TWLmHVra+u5JbtrdgVWWUk49MnOKz6KXJG1ieSPLy20L+oal9vt7SLyvL+zqy53Z3ZYt6cdaoUUU4xUVZFJJKyNWTVba8s7WHULSV2tU8uNoLjywV9wVYZ9xjNQ6lqf26G2gjiMUFqhSNWfe3PXLcZ/AACqFFSoRTuSoRT0NfTtc+w6Y1ni7TMxl8y1uvJJ4AwflORxUeo6qL63EZfUHIbcPtN75qj8Ng5981mUUezjfm6h7OKdy9bXdkmntbXdk0rGXzBNFKqOBjG3JVuO9R3Elg0eLW2uI3z96S4Vxj6BB/OqtFPlV7j5UncKvrrV6trFbkwSRQgiNZbaN9oPoWUmqFFNxT3G4p7oUnJJPf0Fauma0mmwqEiuWdWLFVuisTnsWTHOOO4zismilKKkrMUoqSsyzLf3M0DwySZjkmM7LgcueM561Jaate2UPlW0wVN28AorbWxjcpIO0+4xVKijlja1gcYtWaNA67qLS+Ybj597yZ2L95htY9O4qu9/dSTxTGZhLCipG6fKVA6YIqvRQoxWyBRitkWlv521CK7upJLmSN1bMjkkgHOMmmXtz9sv7i52bPOkZ9uc4yc4zUFFPlV7j5UnckgaJLhGnjMsasCyBtu4eme1azeJJWbcLaFWh/wCPPbx9m4xx68c89+axaKUoRluTKEZO7LmoXyahIkxtkhnIPnPGcCU/3tvY+uOtW7/U9O1K/lu57C6WSU5YJdqB0xxmP2rIopckdPIOSOhPJNGlyJLATQBfu7pdzA/7wA/lUFFFVaxRdvNQ+12Nlb+Vs+yoybt2d2WznGOKpUUUJJbAkkrItwarqFtCIra/uoY16JHMygfgDUt9rE+o6da2100ksluzsZpJCxbdjjn0x61n0UuSN72Fyxvexo2epQQ6XPY3VtJLHNIsm6OYIQQD6qfWoZ5NPaEi2tbmOTs0lyrgfgEH86qUUcqvcFFJ3RPb313ZqwtLqaAP94RSFd31xUkV95ek3Fl5efOkR9+7ptzxj8aqUUOKYOKYuTjGePSren3/ANg+1fu/M+0W7wfext3Y59+nSqdFNpNWY2k1ZhRRRTGFbnhW2nl1N5IoZHRYZFLKhIBKHAz71h0UdANvToNbhQQQWBlhM37yOa1V1Vhj72RleD7cGprWC0TxTdXNqA1lY7pxg5X5RwAfTd0rnqKAHyyvPM8sp3PIxZj6k0yiigAooooAK6LRP+RL8T/7lt/6Orna6LRP+RL8T/7lt/6OoA59AGkUMcAkAn0qS7jjhvZ44H8yJJGVHzncAeDkVGgBkUOcKSMn2qS7SKO9nS3bfCsjCNs5yueD+VAENFFFABVi6W4WO2+0HKmHMXsm5v65qvVi6SdI7YztuVocxc9F3Nx+eaAK9FFFABViS3dNPgnL5SR3VU/u7duT+Of0qvViS2MenwXBfIld1C4+7t28/jn9KAK9FFFABU8EUUltcvJJteNAY1yBvJYAj34JNQVPBHC9tctK+2REBiXP3juAP6E0AQUUUUAFdj4djmvvh/renaOrS6lJcQyPbwgmWaAZyFA5YBiCQK46iqjK113InHmsdxDBqel/D7xHbaiJre5M1mskcjfMEIJVSOo428Hp0rrNR8me21azjtbu9v7zTNPkaC0nEc88YX5tuVbOOMgA5FeN0Vt7bRq29vwTX6mLoXd7/wBaf5Hqcd3dXOq39q2nTaTrEmgLbWcdxOHuJyD3ICkSMgxjAPFZPhGx1HRLrU/7esJ0QaJcSR2t1lNyBhkbeqgnPpn9a4Kil7Z83N11/G/+Y1RsuW+mn4W/yOr8cx3V9dW2vq7TaZfxKLZgBtt9owYMDgbTnA7jnrmsLSLmG1vvMuZPLTYRu+xR3XP+5IQv49ao0VlJ3k2axjyxUexs61qFpeW8a2s/msr5I/si3tMDH96NiT9DxVjwJd29l4206W8lWKEu0bSP0XchUE/ia56ipKkrqx6F4le407wVd6ffWrWKPfpFYWkgAYRRht0nvuLct3J9MVy2v2Op2lvpsmp6gL6K4tg9sVuGlEadNnPTHoOKyI2CSKzIsgUglGzhvY4IP5GrmqarPqssTSpFDFBGIoYIVwkSjsMknqSckknPWpjGy/rsCVv68yjRRRVDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtfQILK7uJILq2aVzE7K5lIC4UkcDvkeuPasitbw/LbW16893dxwKI3QKyuSSykZ+VTR0YEmmWPm6LNcxaZ9vmE6xhcSHau0k8IR7UunWUdzZXM8Wni8ulmCi0DPiND1bAO488cnjvVS3tLVZldtWhiKSckRy5wMHcuF/njpWjdalZ6pDeIJxYPJdidWkViJFxgA7QTkdemOaf8AX5B/X5mXrFvBaatcQWjbokbA+bdjjkZ74OR+FUqv63dw3urSz22ShCjewwXIABbHvjNUKlbAFFFFMArotE/5EvxP/uW3/o6udrotE/5EvxP/ALlt/wCjqAOfQKZFD8LkZ+lSXaxLezrbHdCJGEZ9Vzx+lRpt8xd/3cjP0qS7EIvZxanMHmN5Z5+7njr7UAQ0UUUAFWLqOaOO2M77leHdGM52ruYY/MH86r1Yuopoo7YzSbxJDujGSdq7mGPbkH86AK9FFFABU8lsEsILgPkyu6lMfd27f57v0qCp5IESwgnWTLyO6sn90Dbg/jk/lQBBRRRQAVPAsDW1yZmxKqAwjPU7hn9M1BU8AtzbXJmOJQg8kc8ncM/pmgCCiiigArqNI0u2vvAt/LNJaWskd7EPtVwp+VSp+UFVLcnHAFcvXR6VcadN4OvdLvNQjsrmW7jmiMscjKQqkHJRSR19P8a0haz/AK6ouFubXz/JjU8F6k17qNtJLaw/2ciyTSSSEIY26OpA5GOfX2zxUUPhhrkTSwarp72dvEJZrvdIEjyxUKQU37iRwAtbd94l02ePX44rhyJrK3tbZmRgZ/LIBbpxnGecVm+Gdahs9J1PTZ57e1a78t4p7m1E8QZCflZSrdQeCFOCKq0L29fzf6amjUE1/X9dilP4cltNQa2vb+ytoxCs6XLu5jlRsbSm1SzZz029jnGK1dI0D7Hcagl2tveRyaRLc2syKWVumGXcAQQcjkAirlr4hhjurtbjXYDdtp629nqEFo0Mdsd2SihEDAY43Batz+K9PhvI5oNYmup4dGkthdSxvvefdkdRn3BPTjODVJQWvr/7d/wCoRhe/p+n/BOQv/D8+mXFpbXtzbRXNwFLQM5DW4boZDjC8HOMkgdcVU1Kx/s3UJbT7TbXXl4/fWsnmRtkZ4bv1rV1WXTtXubHUElf7VdMq39pFEd+/OC6cbTu64z1NVvFGmWujeJLuwsZJJIISoUy43DKgkHHGQSRWErKWhhJK+hk0UUUiQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiit3wvcypfSW6lRG8EpbCDJ+Q8bsZx7ZxR0AwqK29KutmkSW1vqYsLmS4VgSzrlQpH3lBxye9W7eDU7awuRZmU6ml4BcmM7pNuMgk9SpOc9vWgDmaK1PEcEdv4guUhChcq2E6ZKgnH4msugAooooAK6LRP+RL8T/wC5bf8Ao6udrotE/wCRL8T/AO5bf+jqAOfTb5i7/u5GfpUl35P22f7L/qPMby+v3c8deelRptEi7/u5GfpUl2YWvZzajEBkYxj0XPH6UAQ0UUUAFWLqCSGO2Mkm8Sw70Gfujcwx+YJ/Gq9WLq3aCO2Zn3edD5gH90bmGP0/WgCvRRRQAVPJDEthBMsmZZHcOmR8oG3B/HJ/KoKnkihWwglSTMzu4dMj5QNuDj3yfyoAgooooAKvx6fcLpM17Np1y1uwCxXXlsI1bcM/N0PcfWqFdP4RRrrT9fsUA3T2GVZyFjUq4b5mPC+xOB70dA7HMUU6RDHIyNtJUkEqwYfgRwfqKbQAUUUUAFFFFABRRRQBNa3lzY3AnsriW3mUECSFyjDPuOahJJOTyaKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtDSNRg02dppbaSZyrINswQAEEH+E561n1bs9Lvb+N5LWBnRASzkhRwMkZPU45x1oAkhudMjYF7Cd9r7lH2oDI44b5Oe/THWnHUbe5vZbvUrV55Xk3gRy7Fx/dI2nI/EVWtbG4vA7QIuyMAu7uqKuemWYgVLDpN5cTSxxRoTEQHYyoFBPQbicHPbB5oAgu7mS8u5LibG+RtxwMAew9qhp80MlvM8UyFJEJVlI5BplABRRRQAV0Wif8AIl+J/wDctv8A0dXO10/hq4W18L+I5Ht4blVjtyYpt21v3oHO0g989e1AHNIVEilxlcjI9qku2ie9ne2XbC0jGNcdFzwPyp09xHcXxnFtFbxkj9zDnaAMdNxJ5+vem3ckUt7PJbpsieRmRcY2qTwMfSgCGiiigAqxc232eO2bzN/nReZjH3fmIx+n61Xqe5t1gjt2V9/nReYR/dO4jH6frQBBRRRQAVPJHALCB0fMzO4kXPQDbt/magrTu9EkttGi1SK7t7q2kl8ljDvBjfbu2sGUdu4yKAMyiiigArodHvLLTvDWr+bexvc31usMdqiPvU+YCSxK7cYGeCa56ijpYAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtfwz/yF2/695f8A0A1kVbstSudOZjaGNWYYLNCjnGMYywOKOgGpby21v4Sjea2W53XpDIzMo+6P7pBzjp9TV27sbTT9MuFJLQW99v8ALLcuTGCqfqcn0B71gQ6td27yNC0aiRgzJ5CFMjoQpGAfcCkh1a9gkldZtxmbdIJUWQMc5BwwIz70f1+X+QFrxO2/XpXIAdo4y4H97YuayafNNJcTPNO7SSOcszHJJplABRRRQAV0Gi/8if4l/wCudv8A+jhXP10Ohqz+EfEiopYmO3wAM/8ALYUAYCELIrMMgEEj1qS7ljmvZ5YU8uN5GZExjaCeBTADFMPMQgqQSpGKfdyrcXs80abEkkZlX+6Cc4oAhooooAKnuYEhjt2STeZYt7D+6dxGP0H51BU9zDFFHbmKTeZIt8gyDtbcRj8gD+NAEFFFFABXUWaxP8NbkX0jRQrqIMBiTezyeWcqwJAC4xznPXg1y9a93rNu/hyLSLG0khjW4+0SySziQu+3bxhVwPbn60dGv63BbmRRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVo6VpkWpNIjXiwyKjMsYjLFtoz7ADj1z7VnVueFbaeXU3kihkdFhkUsqEgEocDPvR0YFC1sY5LOS8vJ2ggVxGuyPezt1wBkDgck5qbTdLttR1L7Mt/5as22MmEln/DoPfn8607E6lHoAtdMSaO+hvMyoikSBSoxkdcZHPbgZp9lAJvH3mWERkhjmy7RLlVO3k5HAGc0dRdLnLsNrEehpKluoJba5eO4ieKQHlXUqR+BqKhFPcKKKKBBXR+Hbq4s/DviGa0nkglWGDbJE5Vh++UcEexI/Gucrd0b/AJFXxH/1xg/9HrQBky3c9zefabyaS4lJBZ5XLM2OOSfYYpLuYXN7POqbFlkZwv8Adyc4qNG2SK2M4IOPWpLyb7TfTzlNhlkZ9v8Adyc4oAhooooAKnuY4Y47cwPuZ4t0gzna24jH5AfnUFT3KQJHbmBtzNFmXno248fligCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiitfQILK7uJILq2aVzE7K5lIC4UkcDvkeuPajoBkUVtaZpfm6U159mjuXabyY0mm8uMcAkk7lyeQAM+vWqwkit7uWGXSUaYy7fKkkk/d9toAIOc9yTR1sHS5nUVe1q0isdZuLa3J8tGGATnbwCRn2PFUaACiiigArd0b/kVfEf8A1xg/9HrWZpln/aOrWllv8v7TOkO/Gdu5gM479a1Ym0e1tru0i1q/EdyFSUDTkwwVgw6y56jtigDCjYpIrAZIIOKkvJmuL6eZ02NJIzlf7pJzirOp2SaXqwhgma4QJFKjtHsLB0VxlcnH3sdarXkrz308sqbJJJGZkx90k5IoAhooooAKnuVtxHb/AGc5YxZl9n3H+mKgqe5+z+Xb/ZvveV++6/f3H19sdKAIKKKKACiiumnSUfDmJ7fUpJLL7cEktJLRE2y7Mlg4YkjHHOPpVJXTfYqKuzmaK7iyls9N+G4uLLVdRs5bi+2Sy29uoZiI/wDVkiUHZyec/wDAa4enOPK7A42SfcKK6bTQdF8Gza1Adt/dXP2S3lB+aBAuXZfRjkLnqO3Wobfw/Zx6Ha6trupy2cV9KyW0dvbee7hTh3bLqFAOB1JOelJRcm0uhm5JK7Ofor0I6TpupeDfDFnc6rJb+bfXNvbNHaeYZN0igOwLLtXp6nnoeayI/BcNrEr+INUNj51+9jAsNv5xdkO13OWXCAkDPJOelX7KTtby/T/NGarRtr5/hf8AyOUorpm8HNp8epz+ILw2Vvp90LMtBD57zTHnCKWUY2jdkkduprY0XRDq3g3VtN0GY3ayahbFZpo/JCr5blmcZO0Lznk9OM0lTbVwlVjHU4GiumsJrLR/FH9mWt82qaTcutvd74vLjmBOMqNx6dVbg/SsfWtOOk65eWBbf9nmaMN6gHg1mbLVXKNFbng+wmvvFNgUtnnghnSSchMrGgbJLHoBx3qpr2pz6rrVzcT3ct0vmuImkcthNxIAz0HPSh9AXUzqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtbw/LbW16893dxwKI3QKyuSSykZ+VTWTRQBsxS2sukHTJr+OLybnzUm2OUdSMHGFzke4FXYtR0+TVL3U/tCRXOQtoJ0cgcY3naG544HrXM0UAS3Ixcv+/W4JOTKu7DE8n7wB/SoqKKACiiigDR8PSxw+JtLlmdY447yJndzgKA4JJPYV0VvqPiKyt0tra58OmKIbULjTnbHuzAk/UnNcZXQaL/yJ/iX/rnb/wDo4UAVvEDga8vkyRzGO3tk3ROHUssKAgFTg8gjis68kkmvp5J08uV5GZ0wRtJPIwajjLCRSgywIwPepLx5Zb6d7hdkrSMXXGMMTyPzoAhooooAKnuTbmO3+zjDCLEvXl9x/pioKnuXgeO3EC7WWLEvHVtx5/LFAEFFFFABXS/2joY8GnRxdah532n7Vv8Asabd2zbs/wBbnGf4v0rmqcY3WJZGUhHJCtjgkdf5iqUrJruVGXK7ms+rQN4Li0gJJ9oS+NwWwNm0ptxnOc59qx6KKUm5O7/roK9zotMmh1PwrcaJNPDBcwz/AGu0aeVY0fja6bmIAOMEZPanR6tpOo+HdP0rWzeWz6bJJ5U9nCk3mo7bmVgzrggjggnqeK5uimpNX8yHFNeh1P8AwkenR2/h2C3iuvL0m/lnfeFJaNpVZQMHlsLz0Ga1J/Hkd7FcW66nrOjxrfz3NvLYYJkjlYsUkTzE5B5BDHqRjvXBUVaqySt/XT/Ij2Mf6+f+bOpPiDTr7T9S0rVJtRa1nvheW16yrNcBgNmJFLKGyncMMEdxTrPxRa6Ho17ZaDLfLJJeW9xBNKqruEYO7eFY4yx4Xnjqaw9O0a91WG4ls0i8q2CmWSWeOJU3HAyXYDk0j6PepY3N55aNbW0ywyyxyo6h2yQAQTnoeRkUe0ktgdOD0exuwroV/wCKhqts32DTIitzc207orK45MUQDZcEjAOBgHkDHPP6pfvqmrXV9KMPcStIR6ZPSiw0y41OQx2rW4YY4muY4c56Ab2GfwqO9srjTr6azvI/LnhYpIm4HB+o4rJ6s0WisXfDV3HY+KNNup5PKiiuUZ3zjau4Z/Sm6/bG31y6Ikt5ElleSNredJVKljjlScfQ81m0UdhhRUkEElzcRwQLvllcIijuScAVY1XSr3RNTm0/VIPIuoSBJHuDYyARyCQeCKdna4rq9inRRVptOul0lNSaLFpJMYFk3DlwASMZz0I5xil0uF0VaKKKBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVu+F7mVL6S3UqI3glLYQZPyHjdjOPbOKwq0NI1GDTZ2mltpJnKsg2zBAAQQf4TnrR0YGjpqx2nh37WbySyknufKM0KbpAoAOByMDucHsOtQmW/sdYuLWTV/srGQNJPucCQ9idoJPBzzxVeHUrVLZ7Sa0kltfOE0aeeA6nGCC23kEewol1K1vbmS41GzkkleTdmGfYAuAAuCrcDHtT63/roLoJ4hCjX7rZF5Q3A4wBngfNxxz1/Gs2rWo3zajfPcOix7gAqL0VQMAfkKq1K2GFFFFMAroNF/5E/wAS/wDXO3/9HCufroNF/wCRP8S/9c7f/wBHCgDBjLCRSn3sjH1qS8aZr6drkbZjIxkHo2ef1qOPd5i7PvZGPrUl4ZjfTm6GJ/MbzBx97PPT3oAhooooAKnuZIZI7cQJtZItshxjc24nP5EflUFT3MsUsduIY9hji2yHAG5txOffgj8qAIKKKKACrEjTnT4FdcQB3MZx1Py7v6VXqxIbj+z4BIP9HDv5Z46/Lu/9loAr0UUUAFd54a0DTp7XRU1qy06EapM0aST3Fz9pmG7bujWMbExnA39SD2rg66bSvHV/pUOnKtjYXMumFvslxcRuzxKxyV4YAjryQSMnBFbUXBP3zGtGco2gXf7N0jR/BU+o3WnJqN8mryWUZmlkRCiqDllRgexxgj73OcYohi0EeCLzX30ONp/7TW3gt2uJfLRTEGIOGDEcMRyDkjkgYODd+Ibu90Z9NljhEL3z3xZVO7ey4I642/hn3qIazcDw22ibIvszXYuy+Dv3hNuM5xjHtS51b5L77K/6i5JdX1fXobljPBc+FfFMtpaJZxMlriCN2ZVO/BwWJOCcnknGcVp+CtJt9b8G31leXS2sEmp225sgM3yvhFzxuJwBnjnNc5oep2FtouradqLXMYvliCSQQrJt2NuOQWX+dVxrMlppV1pNiwe0muUnE0keyXKAheAxA69OfrThOKk3Lrb80VUhKUEovqS3UtrL4sj+wad/ZsCXKotuXdmXDY+YsSd3rjA9qk8a/wDI76t/18tT5dbtda1xNT1sG0nTYXaxtQ/2hlPLOGkADHHJHX0qj4h1GLVvEV9f2yusVxMXQSABgD64JrGW6+f6GkdtfL9R2iaP/azTDytSk8sA/wCgWP2kjOfvfOuOnvSa1pP9kyxJ5eox+YCf9PsvsxP0G5s1mUUDLFhLHBfRvPaxXcecGGYuFbPHJRlPvwa7g+G9FT4q6rpUtkx022glkWBJmBG2HcMMST19c1xFhdR2d0JprKC9UDiKdpAufX5GU/rW7c+OLu41+XWV02wgvJ4pIpmjEuJA6bMkNIcEDpjHvmtoyiorvr+Wn4mFSM2/dN7SvDWja5baJqklgllbyG7N5b280hWQQrvXBcswz0PP0xVnR7DTvFXh3QbEWi6dbzaxOJ44JWK/LCGO0uzEZAA5J5ya5DT/ABhqWmWenW1qlvs0+aSaMshPmeYMOr84KkccYPPWpZPGt+trYW+nWtnpken3Bubf7Kj5DkYOS7NuB98+nTitOent09384t/k9DJ06r69/wD2635o1NTsdDttKTU30/SoZ4L/AGnTrbVvtAubdh1JWVmDKR1BUc9KXxr4f0rwzpsH2SymeXVW+0QyXO5Ws4sA+VgHBfJ5JzgY7nNYv/CTQrdRXEPh3R4nS4FwwVJiHYZwp3SHC5bO1cA4GeBimXXii/1Oxu7LUjFcJd3X2rzZgxaCQ8MUIPAI4IwRgDAyKhyi4tLf/hvz/rc0UZqSfT+vy/H5FK+urCe1tEsdONpLFHtnl88yee3HzYI+XvwPWqNdB4k1aG90/SNPhuFvDp0Bja5WIor5IIVQQCQo4yQCea5+sOp0BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABVuz0u9v43ktYGdEBLOSFHAyRk9TjnHWqla/hn/kLt/17y/+gGjowKFrY3F4HaBF2RgF3d1RVz0yzECkWyuHvhZogecttCqwIJ+ucY9+lbFvLbW/hKN5rZbndekMjMyj7o/ukHOOn1NXI9Ni068uhZTQmd5lhjSSdFaOMgFjyRknO386dtbCvpc5ieCS2uJIJ12yRsVZc5wR16VHWj4gjMfiG+DFTmd2G1g3Un07+1Z1SndFPRhRRRTEFdBov/In+Jf+udv/AOjhXP10Gi/8if4l/wCudv8A+jhQBgx7vMXZ97Ix9akvPO+3T/av9f5jeZ0+9nnpx1qOPcZF2feyMfWpLwTLfTi6OZxIwkPq2ef1oAhooooAKnuZ45o7cRx7DFFsc4+8dxOfyI/KoKnubhZ47dVj2GGLy2P947ic/r+lAEFFFFABViT7R/Z8Hmf8e+9/K6fe+Xd7/wB2q9WJFuBp8BkP7gu/lj0Py7v6UAV6KKKACtS/0b7F4f0rVPP3/wBomb91sx5flsF655zn0GKy69S8PyxR+EvDi2yKdakivl0t5VBjSXzAeh/jIGFJ4B6g9tacFO6fYxqzcLNd/wBGeW0V2Xhee3a41o6pb38t/wD2fcm6ke6AL/3hhoyQ3uSee1M0qfRD4Z10x6fqCxiOHzFa/Qlv3oxg+SMc+x/CsjY5Cit3w42snVbtvCcbrJ9ncurGN2EORkEsACenQA1hUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFW7LUrnTmY2hjVmGCzQo5xjGMsDiqlaOlaZFqTSI14sMiozLGIyxbaM+wA49c+1AEcOrXdu8jQtGokYMyeQhTI6EKRgH3AqubmZrr7S8jNNv3l25JOc5qxa2MclnJeXk7QQK4jXZHvZ264AyBwOSc1LBp9pJbXVzJdzLBDIqKyW4Zn3Z7Fhjp6mjYCjPPJc3Ek87bpJGLM2MZJ69Kjp8ojErCFmePPys67SR7jJx+dMoAKKKKACug0X/kT/Ev/AFzt/wD0cK5+ug0X/kT/ABL/ANc7f/0cKAMGMMZFCcNkY+tSXiypfTrctumWRhI2erZ5/Wo4wWkUKcMSAD6GpLyOWK+njuH3ypIyu2c7mB5OfrQBDRRRQAVYubn7RHbL5ezyYvLzn73zE5/X9Kr1Yurhp47ZWTb5MPlg/wB4bmOf1/SgCvRRRQAVYkScafA7tmBncRrnoRt3f0qvViSKZdPgleTMLu4RMn5SNuTj3yPyoAr0UUUAFT/brvy7dPtM2y2YtAvmHERJySv905GeKgro9E0oTeGtXvpdHi1ERw5SddSSN7LBxvMIO5wSR1GOKTlyq4WT0MG6uri9uXuL2eW4nkOXllcuzH3J5NRVuaf4O1zVLG3vLO1jNvdSGGCSW6iiEkmcbF3sMt6Dqe1RWnhfVry2muFgighgn+zySXdzFbqJcZKZkZcsAOQOlHMu4DNG1dNGaW5htme/KMkEzS4SIMME7MfM2Ccc4GehrLrZs/Ces37XYgtUC2c3kTyTXEcUayZxs3uwUnPYE0tr4Q128nv4YbBg+nOEuxJIkfkk55YsRgcHJ6ADJOKXPHv/AF/TAxaK6zw/4FudT1w2V/Pawxi2e4Dw30D+YAr7dpDkEbkIJGduOcVB4Z0CzvPGNtoetiST7TIsay6fexMEJ5zuCurcdgR9aXOr2E9E2c1RW+fDk2r6vqEPhqymNvY5Mv2m6jJRQ20uXIQAZ56cDqe9Q/8ACJa1/ay6aLMG4a3+0giaMxmHGfM83ds2Y/i3Y7daFOLVyrO9jGors9U8FXK6f4btdOsPM1S+gnkn8qcOsgWQ7X3bigXZj5gcY5rIXwbrj6hb2UVpHJNdRNNb+XdRMk6jrscNtYjB+UEn2oVSL69/wv8A5CMOitBtC1FNPtL17fbDeymG3zIoaVgcHCZ3YB4zjGeM1ral4fB1F9D0W1W5vLCFpby5Mu1nKrlwoLAbV9ANxwTVXQdbHM0VqQeGdZuIpZI9OnxEkTlXXazCRtsZVTgtuPA2g1LqPhLWtLjV7u1TY0/2YtDcRzBJf7jFGOxvZsGmHmY1Fb194K17TFm+3WkULwKWeFruHzdu7buEYfcRnuAQa17bwTPYeGPEF3r1kiXNpbwtABcqzwszrw6IxKkqejj+VHS4dbHFUV0esaUNP8I6XLJo0UMs0r51OHUknW4A52eWpIQrke9R3vgfxDp1rNPd2KosEQnkQXMTSLGSAH2Bi23n72MUdWBgUV2vhrwPcSrdXWuWK/Zv7LmuoUNyokBCkpIY1beFyOCRg/jWKvg/XX0tdQWy/ctAblVM0YlaIHBkEW7eV9wuMc9KHpv/AFv/AJAtVdf1t/mYlFbMPhLW7mSwW3shINRiaW2dZkKOq/eJbdhdvcMQR3rIkjMUrxsVLIxUlWDDj0I4I9xR1sA2iiug8O6YLnTNVupNIj1NYrZyCNRSF7bAyZfLzucDI7Y7VUYuRMpKKOforY07wrrGq2KXllbRm2eXyVlluY4lMnHy5dhycjA79uhpbTwprN3JcqlmE+yzi3mM8yRASH+AF2G5uOgyaapybStuL2kO5jUV13iLwhP/AMJbq9roVmsVjYMm9prhY44tyrgGSRgMknoTmseXwvrEKag0lkVOmkC7TzF3R56Ntzkrz94Aj3pOEl0FGpGSvcyaKu6npN7o9wkGoxLDM0ayeX5isygjI3AElTjnBwfaqVJpp2Zaaaugoq7Z6Pf6hZXN3ZW5mhtTGsxVhuUu21cLnJyeOAau2vhDXr3aINNk3G4a2KOyoyyKu5gysQVAByScAetIZi0Vtnwhrn9pWVilmss1+pa1MU8ckcwGc7ZFYocYOeaV/B2uJLFF9kjknlmWAQRXMUkqSMCQrorFkOFP3gMYOaAMOivR9G+HtvLpmmQ63F5Vzd6wbZp7S6ST90IiSoKlkyGU54yKo6j8P1iTUotNae5uY9St7axUuoWaKZGdSSQOcbecgdaPT+tv8w/r8/8AI4aitix8Ka1qUs0dlZea8FytrIPNQbZWJAXk88qeRxU9/wCB/EGmafJfXliiW8ab2dbmJ/l3BSQFYkgMQDjoeuKL6XDrYwKKKKACit278F69Y28s11ZKghhE7oLiJpBEcfPsDbivP3sY/Kq7+GdXj1BrJ7TFwtr9rKeanEW3duznH3ecdfaqcJLdf1/SZCqQezMqiumHw88TkDGnJzgYN1D1IyB9/qQeB1Paq9pp1tq3h27e2t/I1HTU82TazEXEWcMSCThl9sAjtRKLjuhxnGXwu5g0VetNGv77Tru+tLcyW1mAZ5NwGwHpwTk/hVGpKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtzwrbTy6m8kUMjosMillQkAlDgZ96w6KOgHTWJ1KPQBa6Yk0d9DeZlRFIkClRjI64yOe3AzRcjUG1S7Gi2qXNpJON6rbrLHvAGeoOBknniuZoo63DoX9bS2j1m4Wy2iEMMBDlQcDIHtnNUKKKACiiigAroNF/5E/xL/wBc7f8A9HCufroNF/5E/wAS/wDXO3/9HCgDBjUtIqqcEkAH0qS8ikhvp4pn8yRJGV3zncQeTUcal5FUHBJABqS8ia3vp4ZH3vHIys394g4zQBDRRRQAVYup3mjtlkTYIodin+8NzHP6n8qr1YuppZY7YSx7BHDsQ4I3LuY5/MkfhQBXooooAKsSQypp8EzSZikdwiZPykbcn8cj8qr09v8AUJ+9LHcf3fPy9Ofx/pQAyiiigArt/BlqF8MeIfNvNOgbULEQ2yT6hBGzuJASCrOCvAPJAriKKmUeaNg6pndQ3lrb6P4Ltpby28yz1WZrhVnVhEPNj+YkHAGASD0IFXZHN/rupQm60O+0C61maSS3udQjgaI7gPORiytyp4K7lODlTwK84oqPZjvpb+uv+Z6Lb3OjN4Xv9C0cabqK22rtcQDVrlrXzoSgRXDeZGCwx0JHBzik1HXWutI8bHUbzTRfXYsVVLGbdHLtYZCZJLYAGSCe/avO6KPZ93/Wn+Q766HTfD+7trTxYpvbmK2jltp4RLM21Azxsq5PQDJ6nirXgnTn03x/p819d6bDDZzpLNK2pW+wKc9G34Y+oXJHeuPoqnG7v5W/P/Mhq8XHudtE0emWvjKKe9sxJd26mDybuOTzQbhTgFGIJxkkdcdRW1Hqunzaba6fFqFnHcXXhX7IsjzKqpKJC3luxOEJA/iI7eteX0VHsk1a/wDVrF82rffX8v8AI9Y0/UtO0iw0fS7rUdNup5NGvLNibrdDFLJKGVJHRvlGPl3A47g45rJV5Lm60Cy1C50LRtP02Wa6zpuoiWSFQVZvmMr5ZiPlUHOcnGBXntFNU7Pmvrr+bf6k9Lf1tY73xfr9prOs6T4us512iRUl05pV8y3aN8jCjnaw5z03E89KfYNb6X8XxNfXEa6fqDSMLiVgI2inRsNuPGPmxn2Nef1O97dS2cdpJczPbREmOFpCUQnqQvQVcIqEVFf1fcbbf9dtj2f/AITbQraG3vpLm2LJq6WjpEQzLawvIySBRklfmHIHbiuUZ7bQtA1W1u9VsrqbUdWhktxbXUc37uNyxlYqTsyCBhsH2rzyirWjv/XT/IlpNNf11/zOv8W6rav8WrrU0nS6tUvo5BJEwdXRdvQjg8Ct7U2tYrTxxetrOnTrqxR7NIrtGklUyhvuA5UgHGCAevHFeZUVCilFR7FX96/9aHdazYlfhhpNmL3THubK5uJp4Y9Tt3ZVbbtIAc7icHgZNat1q2nSeOPFM/8AaFq0E2gNDDJ5ylZH8mMbFOcE5B4HOQa8woqu/n/lYE7W8v8AO56wbuxuvEmp+IBrGnJZXWhNDDE12iy+Z5IXyjHncCCp6jB4xnNNm8QLNfadrWhxeHAYtMWFp7++eOWArGVeMxecN3fGEOcj615TRQ9f69f8xLT+vT/I9O0G/wBOsPBY8K3OsRx3OtxSTG4S5Qw2J42Rs2cLv2kOO2RmuJsNBS90vVrlr6OOfTVD+QF3iVd20kODjqRjrnNY9XP7UvBpZ05ZQlqW3uiRqpkPbcwGWxnjJOO1D1bYLRJf15lOuy8D2wS01qaa7sIFu9LntoRPfQxs0hK4G1mBHQ8kY9642irhLld/X8dCJx5lY7Azw23grTLGW6t/tEGtO8saTo+F2qN3ykgr1+bpW/4nuLLxANQstN1TT4mi1s3TPJdJGkkbRgeYrEgNgg5C5PtXmFFaKs+3b8OX/wCRMvYK979/xv8A5nqus6zpuozeItOtTpV/JJfxXUX2y7MUM6CIIdsgkQbgecFuhPUjipZ699g8TXXiXWbnTS9jaR20djpt0HF0WQAIcsxdVB+Y5IyowTivNaKFWad1v/wLCWHjbl6HU6xptpqXj1VTWEktNVlE0d3kTOnmchXVTkMCduDj16Vz+pWf9napdWRkEht5ni3gYDbSRn9Kdp+p3WlztNYyLFKVKiTy1Zkz3UkEqfcYPvVVmLsWclmJySTkk1g7X0OiKsrM7f4Y6np9jf6nFq80ENu1ss6mZwoaSGRZFUZ6k4PHeuun8T6ReWlhB/aVpDc6xpNz9ol8wBYLqRI1Ac5OzJjPJ9a8Zooeqt/XX+vkhrR3X9f1+p6p4d1Cw0S88F6de6nZGezuLq4uZEuY3it1dSFUyKSuTjOMnrXJ+C9Ut7D4iW19f3KxRNJKrXD8hC6MoYn0ywOa5eijrcOlv66/5nq/hRrPw9pui22paxpfnLrrXEixX0cgij8gqGZlJABI9e4zzxVqy8VaR/wh+hXdzfQC8tdUtormIyjzPKiaTbJt6kBXHOO1ePUU7u9/T8Lf5B/wfxv/AJnsXh2bT9Fv7+S+1nSh9q1+G4jEd9G/7oO58wkMQBz0PI7gZFUZdX00+DZIBqFqZTolxEI/PXdvN1uC4z1I5x6V5XRUcvu8v9bcodb+n53Na+0WO08O6dqsN6s/2xnR4fLKmJlxxk/e6jmsmrd/ql5qflfbJQywrsijRFRIx7KoAH4DmqlV1DoelXGqae/jjX5zfWzQS6C0McnnKVd/JQbAc4JyCMe1WGurC51iTW/7U0+O2l8PG3SNrpPNM3kFfLKZ3A5B5IweMEk15bRW7rN3uv61/wAzmWHStrt/wP8AI9mi1zSRrwkOqWQT+1bGTd9oTG1bYqzZz0B4J7GuC0A/YbDxBq0rYga2ezi/6aySHgD1wATXLVPNfXdxbxW89zNLDACIo3kJWP8A3QeB+FTVqup+P42X6F0aSpbPt+F/8y/pWix6npGqXf21YZrCISiAxk+aucH5ugxkeuc1k1cGqXi6WdOSUJas250SNVMhHTcwGWx2BJxVOsupt0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtrw4YZLqS3mtYJd0Mjb5E3MMISAM8DnnOM+9Ytaeh3lnYXTz3bzg7GRViiDZ3KRnJYetHRgW9MskTQzel7SOWWfyVlu03qoAB4XDcnPUjgDtU8WnNbWt7dXa2Vvci4EAaaMGOPjJKoAQc8Y4wBnpVCK8sG09tPuXufISfzopUiXceMEFS2B9cmpp9attRW6hvlmhhlmWaIwqHZcLtwQSM5Hf1o/r8v+CBm6nDNBqMsd0kaSqRkRKAp44IA4wRz+NVat6perf6g88aFEwqopOSFUADPvgVUoAKKKKACug0X/kT/Ev/AFzt/wD0cK5+ug0X/kT/ABL/ANc7f/0cKAMGNd8iqDgsQM1JeQm2vp4Gfe0UjIW/vYOM1Gi75FXOMkDPpUl3D9mvZ4N+/wAqRk34xuwcZoAhooooAKsXUk0kdsJ02qkO2M4xuXcxz+ZP5VXqxdPO8dsJ12qsOIuOq7m5/PNAFeiiigArrd97rvw7ZS1xqFzYXwYglpHhhMf5hcr9BiuSrprkpY/D2OxkubdrmfUPP8qG4SQiMR4y20nHPY80P4X8vzQL4l/XQ5miiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqWG2nuSwt4ZJSi7m8tC20epx2qKtvwxPKNQaASv5JhlYx7jtJ2HnHrR0Aybe1uLuTy7WCSdwM7Y0LHHrgVLHpeoTM4hsbmQxttcLCx2n0PHBrVtRaQ+Eg915zLPebXWBwpICgjJIPAyTjHU1CmkY8ViwkkMkSuGZ2HWMDdk/hT62F0uZM0MtvK0VxG8Ui9UdSpH4GmVb1O8/tDVLi6xgSOSo9F6AfliqlSthhRRRTAK6Xw3LbxeHPEP2yB54fKgLJHJ5bH98MfNg45Pp2rmq3dG/5FXxH/1xg/8AR60AZU5tpr4/ZInt4GICpJJ5hXpnLYGecnpTbuFbe9nhR96xyMgb+8AcZqNFDSKrHAJAJ9Kku4kgvZ4on3xxyMqvn7wBwDQBDRRRQA6OMyyrGpUMxCgswUc+pPA+pq/q9lf2DWsWooijyAYGjkSRXj3HkMpIPOe9Z1dTr8Ym8HeH55ZY4JI7d40t3yXlXzD864BAHP8AEQeOM0PYOtjlqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKu6bqZ0yRpI7aCWRlK7pd/AIwRwwHeqVXtP0mbUg5hmgTYpO2STDNgZOFGT074x70AOh1Ywo8X2O2kt2kEiwPvKow4yPmz+ZNNXV7kXF3O2x5rpDG7kcqD1xjpxxTLXT3uYJJ3mit4IyFaWUnBY9AAAST9BUkWktIksrXdtHbxuI/Pcttdj0AwpPTnpQBQoqe8tJbG7ktrgASRnBwcg+hFQUAFFFa3hy0gvdTaO6jEiCIsASRzkVM5KEXJibsrmTW7o3/Iq+I/8ArjB/6PWk8TWNtY3EC2kQjDKSQCTnn3qTw5eTWOja9NblN620RHmRq6/65B0YEHgmlCanFSQJ3VzBQBpFDHAJAJ9Kku444b2eOB/MiSRlR853AHg5FOnuXvr4z3RQNIRuMcaxjHA4VQAOB6U27SKK9nS3bfEsjBGznKg8H8qsZDRRRQA6MIZVEzMsZI3Mq7iB3IGRn6ZFbHiDVbS+t9MtNP8AOaGwtvK8ydAjOxYsTtDMAOfWsWigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArX8M/8AIXb/AK95f/QDWRVi2v7yzVhaXU8AY5YRSFc/lR0A2LS4MPhSM29vFPKL7DiSISDlRjg564xnr1xVu+jh020vvLtkubf7aq/Z3J2wtsyTkYOckr1xx3rnU1G+ineaO8uElk++6ysGb6nPNNt726tHZ7W5mhZ/vNHIVLfXFH9fl/kBd8SIya9PvcszBWIbGUyoO049On4Vl0rOzuzuxZmOSxOST60lABW74S/5DD/9cT/MVhVueE2C6u5YgDyT1+orGv8Aw2TLYseMf+Pq2/3D/Oqmj/8AIv6//wBe0X/o+OrXjBg11bbSD8h6H3qro/8AyL+v/wDXtF/6PjpYf+Egj8JkIFMih+FyM/SpLtYkvZ1tm3QiRhGfVc8fpUabfMXf93Iz9KkuxCL2cWpzB5jeWefu546+1blENFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVqaLY2WoSyRXLziXy3ZBGAFG1ScknPp0x+NZdbPhpQuoPNJLBFGIpEzLMiclSBwSCaOjAj03SvtNi928F1c/P5ccFqPmY4ySTg4AyO3U0sdlYpaSXt0l15BuPJjiV1VxxkkkqQcemB+FWYC8uhDTUuoIZ4LsSndcKqlSOobODg+hqea9+26hdrAbGazedX/0qUJhguDIBuUnPPHP0p9f68gMTU7L+ztSmtd+8IRtbGMgjI/Q1Uq/rd6uoaxcXMZ3IxAU4xkAAA47ZxVCpWwBW74S/5DD/APXE/wAxWFW74S/5DD/9cT/MVlX/AIUiZbE/jH/j6tv9w/zqpo//ACL+v/8AXtF/6Pjq34x/4+rb/cP86qaP/wAi/r//AF7Rf+j46WH/AISCHwmQm3zF3/dyM/SpLvyfts/2X/UeY3l9fu54689KjTaJF3/dyM/SpLswtezm1GIDIxjHoueP0rcohooooAciNJIqIMsxAA9TWtd+FNYsBL9rt44nhGXhNzF5mM7chN24jPcDBrNs2C30DMQAJFJJPTmui17VLcfE6bUvMS5to75JN8bBg6KR0I4PArSMYu1+r/yKVrNvpb9f8jMvvDOrabbtPeWyxojKkgEyM0RYZUOoYlM/7QFW9Z8LSaVpNhdi4tpDPAZJQLyFsHeVAQBssMAcjPf0rZ17UHSDXJLJNCFrqDBmmivGeedS4ZcRmUlWGcnKjHNZesql94a0W4tbm1cWdqYp4jcIsiN5jH7hIY8MOQDT5Y2+79f6/rXVxim0tdP1X6GZL4f1OG+u7SS2xPZw+fOnmL8iYBznODww4HNTr4T1hoYJWt4o0uUV4DLdRR+aD027mG4+w5GR611t7PZy6tr+sDUrH7PfaV5duguUMjuY0yuzOVI2nqB7ZrnPF15FdR6GsFxHMsOlQowRw2xucqcdD04pyhGK/ru/8kDhFJv+un+ZVPhLWhaC5NouxoPtCr58e948Z3qm7cRg84HFVIdGv59Gn1WK3LWVu4jll3D5WOMDGcnqOgrsbPUrEeLtKlkvLcQx6IsTu0q7VfyWG0nOAcnGK5az0WK78M6hqgvQs1i6BrYxn5lY4Dbs46549qmpFRk1H+tWiJRSSt/Wif6mTRRRWZmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVteHDDJdSW81rBLuhkbfIm5hhCQBngc85xn3o6AYtFaeiNNNfwWUSwFZZPmaS3jkIHc5ZT2FaqpDL9ovrG1tcTXhjTzYlaOKJV3E4IwMjHP5UwOXorS1+1htNamS1G2BgskY9Ayg/wBazaQBWpoF/Bp2oNNclghjK/KM85H+FZdFTKKlFxYmro2fEWpW+pTwtaliEUg7lx3o0f8A5F/X/wDr2i/9Hx1jVs6P/wAi/r//AF7Rf+j46UIqEeVAlZWM6xtLi+vEhtLaa6kJz5UMZdiB14HNLqUfk6pdRiF4AsrARSKVZBngEHpxVcHBBFdP4+t3PiNr87Fju4onRC6+Yv7tfvpncp+oq2NHL0UUUAFFFFABRRRQAUUUUAFXJNVvJNMj08yhbVG3eVGioGb1bABY+7ZxVOigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArT0O8s7C6ee7ecHYyKsUQbO5SM5LD1rMqWG2nuSwt4ZJSi7m8tC20epx2oAuWV5bae148Rlkd4TFA5QLjdwSeTjjPTNSWOpQLpE+nXjTRxSSCQSQqGPupBI4OB36gVTt9OvbuMvaWdxOgOC0cTMAfTIFNWxu3umtktZmnX70QjJYfh1oAk1S9GoajJcKnlo2FRSc4UAAfoKqUdOtFABRRRQAVs6P/yL+v8A/XtF/wCj46xqv6XqzaYtyn2W3uorqMRyR3AbBAYMPusD1AoAr2cEdxcrHNdRWiHkyzByo/75Vj+lafi7UbbVvFF3d2Ll4GKqjlSNwVQucHkdKy7udbm6eWO3itlbGIod21eMcbiT79ahoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArb8MTyjUGgEr+SYZWMe47Sdh5x60UUPZgVNCtUvNctoZeY9+5h6gDJH6Vo6NqVxd+L0k82RY7m4LvGGIB64yO+KKKfYT2ZgP/rG+pptFFStipbsKKKKYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=)

for문은 ((읽어온 단어의 글자수) – 1) 회만큼 반복합니다.

int check = 1; // 2-gram 중복을 체크하기 위한 변수. 만약, 현재 확인하고 있는 2-gram이 이전에 처리했던 2-gram인 경우 0 값을 가짐.

strncpy(&a, &str[i], 1);

strncpy(&b, &str[i+1], 1); // 현재의 2-gram을 알기 위해 a에는 str(읽어온 단어)의 i번째 글자를 복사하고, b에는 str의 i+1번째 글자를 복사

index = makeAlphabetNum(a, b); // makeAlphabetNum 함수를 이용하여 2-gram의 알파벳들을 알 때, 이를 2-gram의 인덱스로 변환해줌.

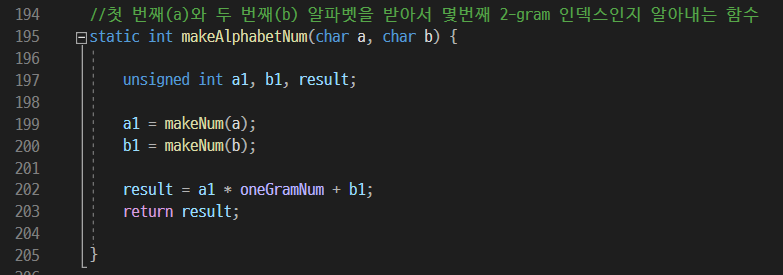
그 다음 for문을 통해 현재 확인하고 있는 2-gram이 이전에 확인한 2-gram인지 중복을 체크합니다. 만약 중복인 경우 check 변수를 0으로 바꿔줍니다.

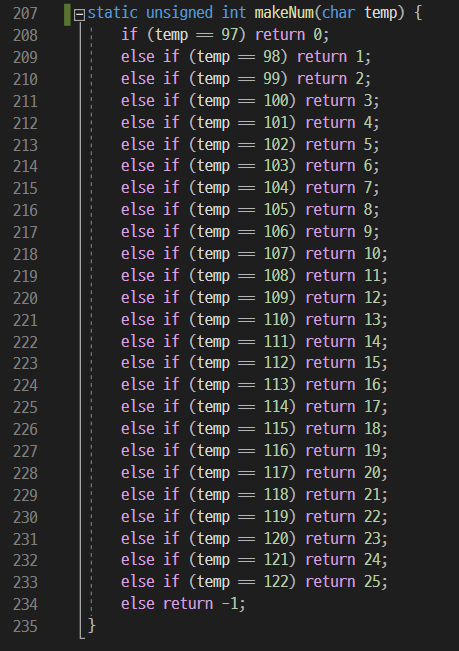
그 다음 if문을 통해 중복이 아닌 경우 arr 배열에 2-gram의 인덱스를 저장하고, insertIndex 함수를 이용하여 2-gram과 해당 단어를 구조체에 저장해줍니다.

그렇게 읽어온 단어의 모든 2-gram을 처리하였으면 해당 함수를 끝냅니다.

1. **makeAlphabetNum 함수 & makeNum 함수**

이제, makeIndexer 함수내에서 사용한 makeAlphabetNum 함수를 살펴보겠습니다.

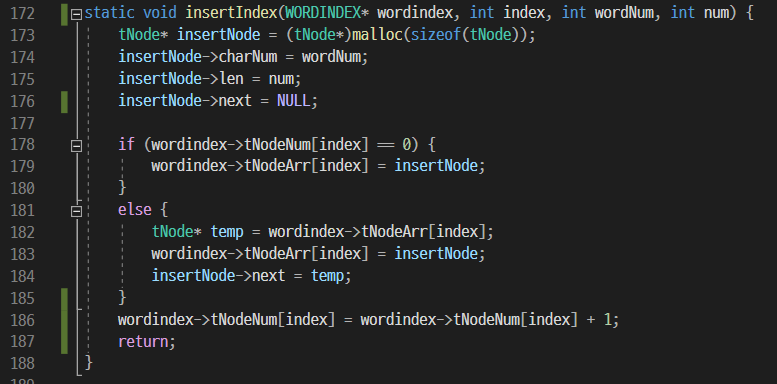




아스키 코드를 사용하여 해당 알파벳의 인덱스를 부여하고 각각의 알파벳 인덱스를 사용하여 2-gram 인덱스를 만들어 리턴 했습니다.

1. **insertIndex 함수**

이제, makeIndexer 함수내에서 사용한 insertIndex 함수를 살펴보겠습니다.



먼저, 함수의 인자를 살펴보면 wordindex는 2-gram과 단어들에 대한 정보를 저장할 구조체, index는 해당 2-gram의 인덱스, wordNum은 읽어온 단어의 인덱스(몇 번째 줄에 있었는지), num은 읽어온 단어의 길이를 의미합니다.

tNode\* insertNode = (tNode\*)malloc(sizeof(tNode)); // 새로운 노드의 메모리 공간을 할당

insertNode->charNum = wordNum; // 새로운 노드에 읽어온 단어의 인덱스를 저장

insertNode->len = num; // 새로운 노드에 저장할 단어의 길이를 저장

insertNode->next = NULL; // 새 노드의 다음 노드를 가리키는 포인터를 NULL로 초기화

if(wordindex->tNodeNum[index] == 0){ // 해당 2-gram에 어떤 단어도 저장되어 있지 않을 때

wordindex->tNodeArr[index] = insertNode; // wordindex의 해당 2-gram을 가지고 있는 노드를 가리키도록 하는 배열에 새 노드의 주소값을 넣어줌

}

else{ // 해당 2-gram에 1개 이상의 단어가 저장되어 있을 때

tNode\* temp = wordindex->tNodeArr[index]; // 임시 노드 포인터가 해당 2-gram의 첫 노드를 가리킴

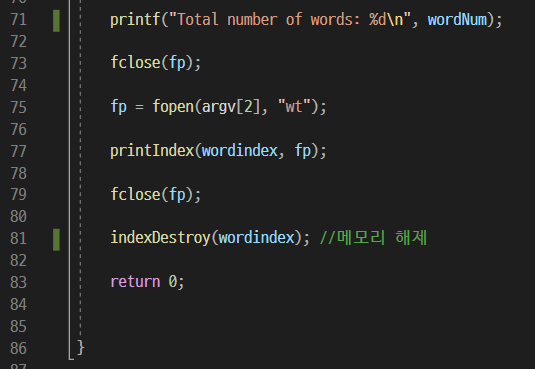
wordindex->tNodeArr[index] = insertNode; // 해당 2-gram의 첫 노드를 새 노드로 함

insertNode->next = temp; //새 노드의 다음 노드가 이 전의 첫번째 노드가 되도록 가리킴

}

Wordindex->tNodeNum[index] = wordindex->tNodeNum[index] + 1; // 해당 2-gram에 저장되어 있는 단어의 개수를 +1만큼 갱신

이제 다시 main 함수를 보겠습니다.



printf(“Total number of words: %d\n”, wordNum); // 우분투 화면에 총 몇 개의 단어를 처리 했는지 출력

fclose(fp); // words.txt 파일 닫기

fp = fopen(argv[2], “wt”); // index.txt 파일을 쓰기전용으로 열기

printIndex(wordindex, fp); // index.txt 파일에 2-gram에 대한 정보를 저장할 함수

fclose(fp); // index.txt 파일 닫기

indexDEstroy(wordindex); // 지금까지 할당한 메모리 해제하기 위한 함수

1. **printIndex 함수**

이제, printIndex함수를 살펴보겠습니다.



해당 함수는 index에 대한 정보를 index.txt 파일에 출력하기 위한 함수입니다. 이중 for 문을 사용하여 정보를 출력하고 있습니다. 먼저, 바깥의 for문은 2-gram을 aa부터 zz까지 살펴보기 위한 반복문이고, 안쪽의 for문은 해당 2-gram에서 첫 번째 노드부터 마지막 노드까지 출력하기 위한 반복문입니다.

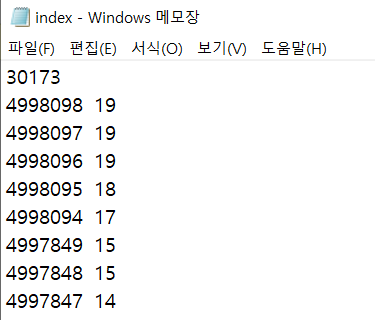
출력방법은 aa부터 zz까지 순서대로 출력하며 먼저 해당 2-gram에 저장되어 있는 단어의 개수를 출력한 뒤, 그 다음 줄부터 해당 2-gram을 가지고 있는 단어의 인덱스와 단어의 길이를 함께 출력하도록 하였습니다.

예시) aa에 대해,

(aa를 가지고 있는 단어의 수)

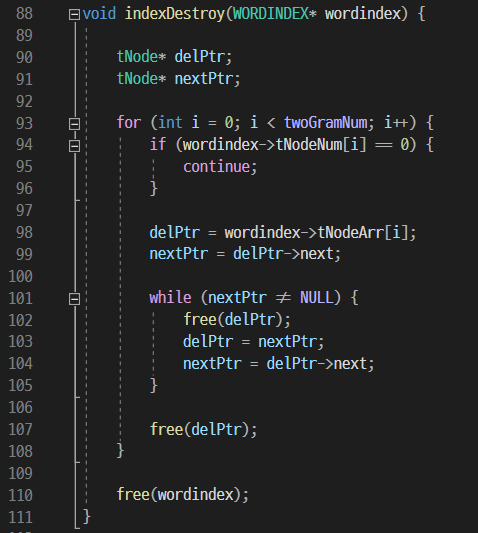
(첫 번째 단어의 인덱스) (첫 번째 단어의 길이)

(두 번째 단어의 인덱스) (두 번째 단어의 길이)



1. **indexDestroy 함수**

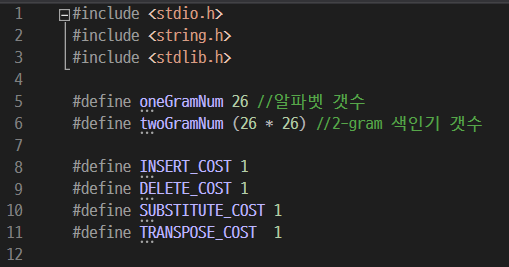
이제, indexDestroy함수를 살펴보겠습니다.



delPtr은 삭제할 노드를 가리킬 포인터이고, nextPtr은 삭제한 노드의 그 다음 노드를 가리킬 포인터입니다. 모든 노드를 삭제한 뒤에는 wordindex 구조체까지 삭제하였습니다.

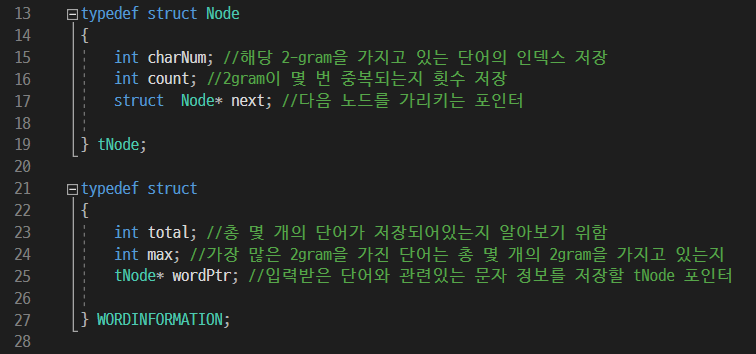
**Ⅱ. Search 파일**

1. **헤더파일**

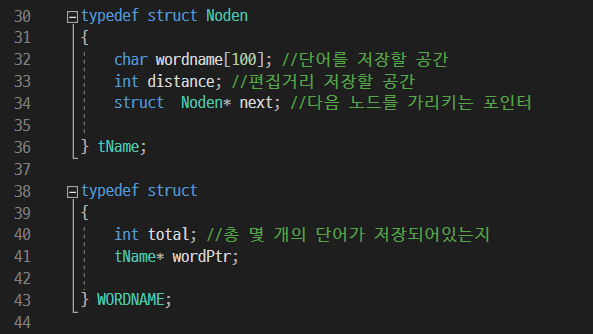


헤더파일과 매크로 함수입니다. 매크로 함수는 index.c 파일과 이전 과제인 편집거리에서 사용한 매크로를 그대로 사용하였습니다.

1. **구조체**

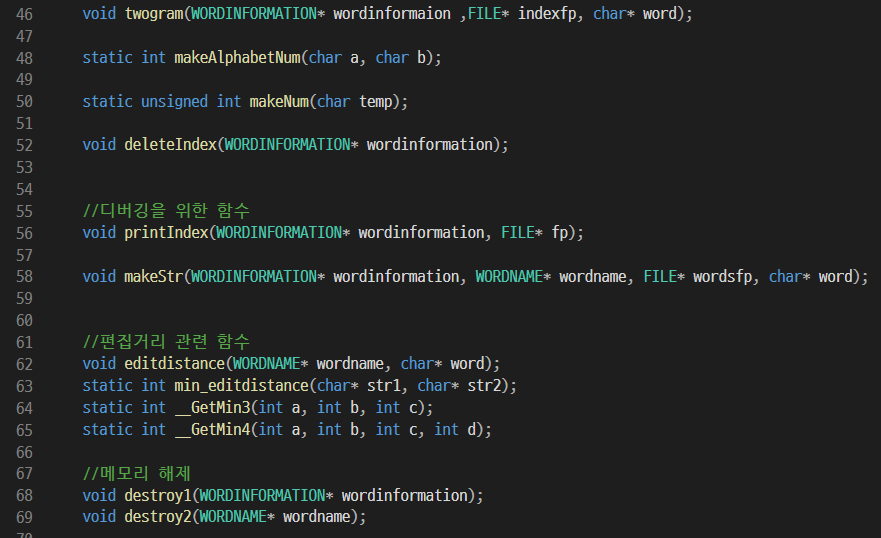


WORDINFORMATION 구조체는 단어정보를 단어의 인덱스로 저장하는 구조체입니다.



WORDNAME 구조체는 단어정보를 문자열로 저장하는 구조체입니다.

1. **함수 선언**



Search 파일에서 사용한 함수들입니다.

twogram 함수는 입력 받은 단어가 가지고 있는 2gram 정보를 가지고 관련 있는 문자들을 인덱스 정보로 저장하기 위한 함수입니다.

makeAlphabetNum 함수와 makeNum함수는 index 파일에서 사용한 것을 그대로 사용하였습니다.

deleteIndex 함수는 입력 받은 단어에서 가지고 있는 2gram들 중 너무 적은 수의 2gram을 가지고 있는 단어의 인덱스들은 제외하기 위한 함수입니다.

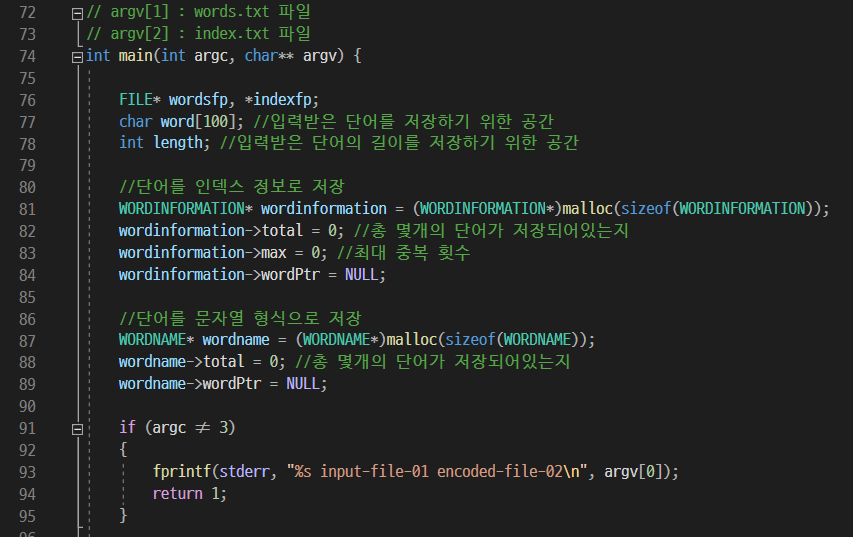
printIndex 함수는 디버깅용 함수로 실제로는 작동하지 않습니다.

makeStr 함수는 추려진 관련 단어들의 인덱스를 가지고 문자열 정보를 가진 구조체를 만들기 위한 함수입니다.

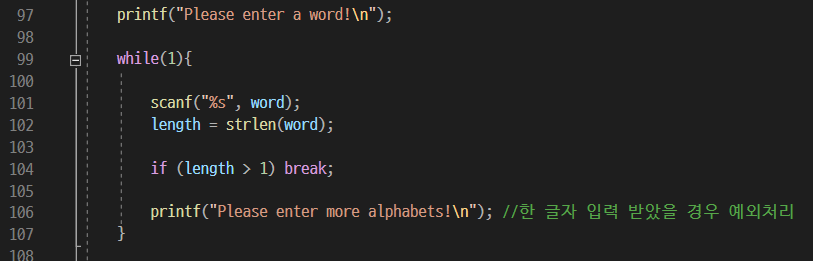
editdistance, min\_editdistance, \_\_GetMin3, \_\_GetMin4 함수는 이전 과제인 편집거리에서 사용한 함수를 그대로 가지고 와서 백트래킹을 위한 부분만을 제거하였습니다.

destroy1, destroy2 함수는 인덱스 정보를 가진 구조체와 문자열 정보를 가진 구조체에 할당된 메모리를 해제하기 위한 함수입니다.

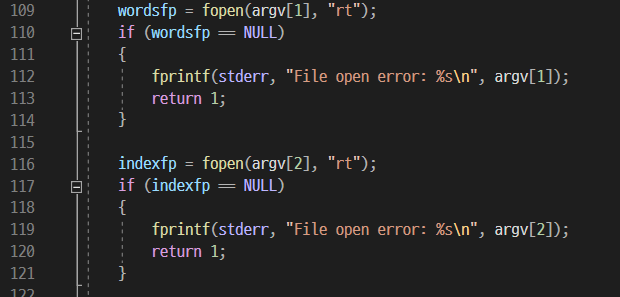
1. **main 함수**



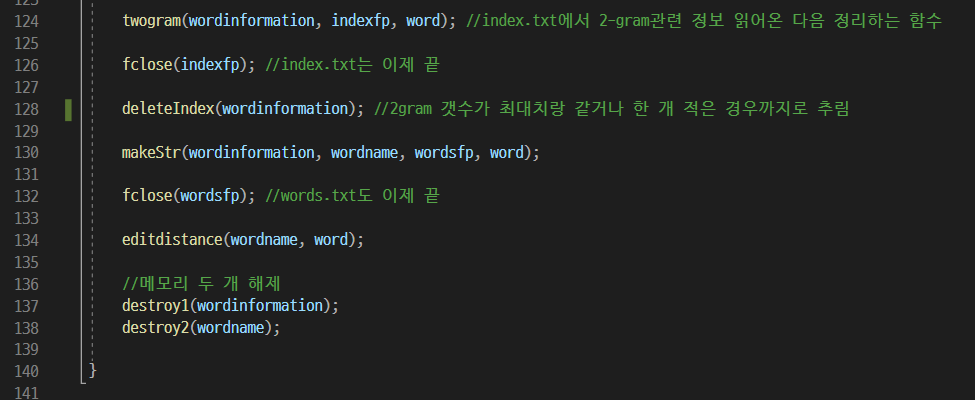
main함수에서는 파일 포인터와 입력 받은 단어를 저장하기 위한 변수, 그 단어의 길이를 구하기 위한 변수 등을 선언하였고, 인덱스 정보와 문자열 정보를 저장하기 위한 구조체 두개를 메모리 할당하여 선언하였습니다.



단어를 입력 받기 위한 부분입니다. 만약 단어의 길이가 1인 단어를 받게 된다면 2gram을 만들 수 없기 때문에 예외 처리하여 다시 새로운 단어를 입력 받도록 하였습니다.



wordsfp 파일 포인터는 words.txt 파일을 읽기 형식으로 열기 위한 변수이고, indexfp 파일 포인터는 index.txt 파일을 읽기 형식으로 열기 위한 변수입니다.



순서대로 살펴보겠습니다.

twogram 함수로 index.txt에서 입력 받은 단어가 가지고 있는 2gram들을 알아보고 이와 관련된 단어들을 미리 정리한 index.txt 파일로 읽어온 다음 그 단어의 인덱스들을 인덱스관련 구조체에 저장하였습니다.

그 후에는 index.txt 파일을 닫습니다.

이제 deleteIndex 함수로 관련 2gram들을 너무 적게 가지고 있는 단어들은 구조체에서 제거하였습니다.

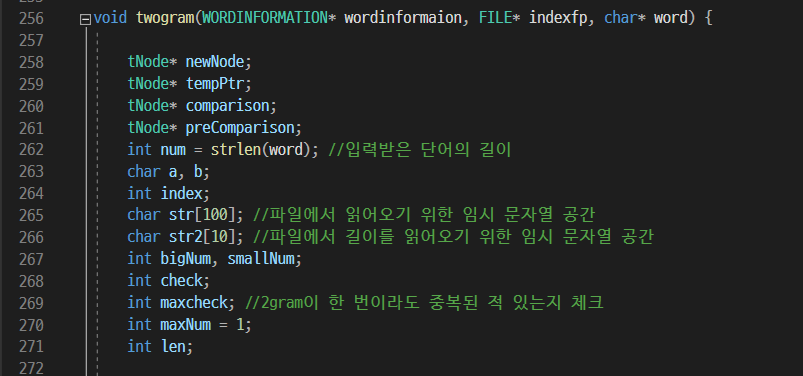
어느정도 관련 단어들이 추려진 이후에는 makeStr 함수에서 인덱스 정보를 가진 구조체를 이용하여 문자열 정보를 가진 구조체를 만들었습니다.

그 후에는 words.txt 파일도 닫습니다.

editdistance 함수에서는 문자열 정보를 가진 구조체를 이용하여 입력 받은 단어와의 최소편집거리를 구하고 최소편집거리가 작은 순서부터 오름차순으로 화면에 출력하였습니다.

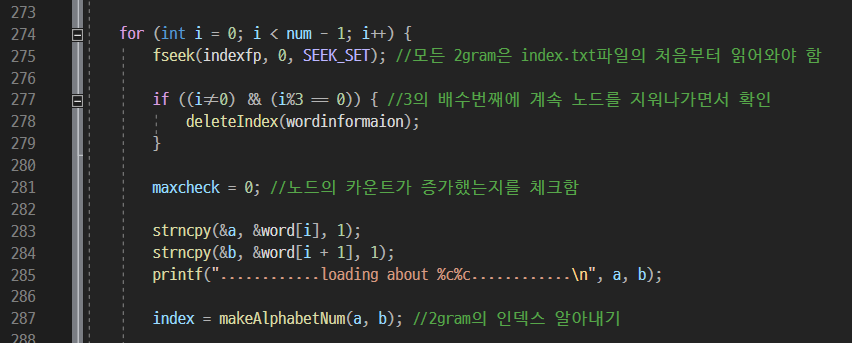
마지막으로, destroy1, destroy2 함수를 이용하여 두 개의 구조체를 모두 메모리 해제하였습니다.

1. **twogram 함수**



twogram 함수부터 살펴보겠습니다.

변수의 선언 부분입니다.



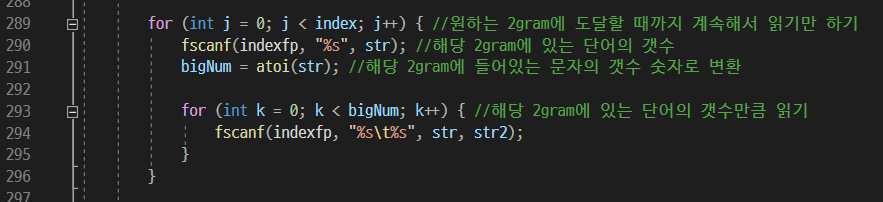
for문의 조건에서 사용되는 num은 입력 받은 단어의 길이 입니다. 이 반복문은 입력 받은 단어의 길이를 -1 한 횟수만큼 반복합니다. 이 반복문이 끝나면 함수도 종료됩니다.

반복문이 시작될 때마다 index.txt 파일을 처음부터 읽어와야 합니다.

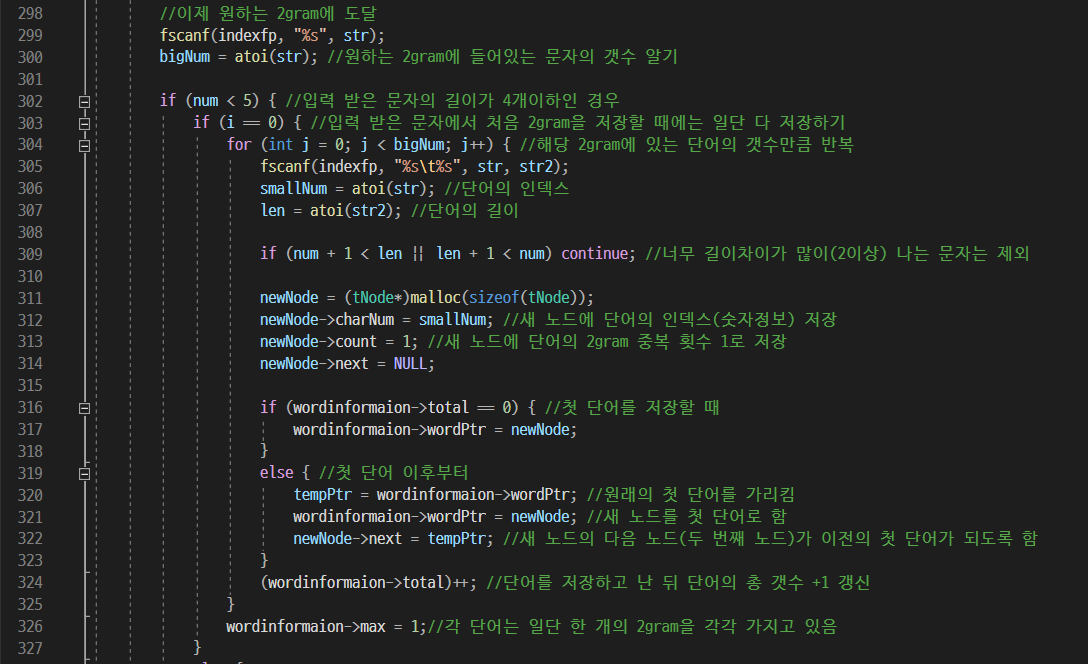
또한 시간이 너무 오래 걸리는 이유로 3의 배수 번째 반복마다 deleteIndex 함수를 이용해서 관련도가 떨어지는 노드들을 지워주었습니다.

maxcheck 변수는 노드의 카운트가 증가했는지를 체크해주는 변수입니다. 즉, 이번 반복에서 중복되는 2gram을 가진 단어가 있었는지를 확인합니다.

그 후 이번 반복에서 확인할 2gram의 인덱스 번호를 확인하였습니다.



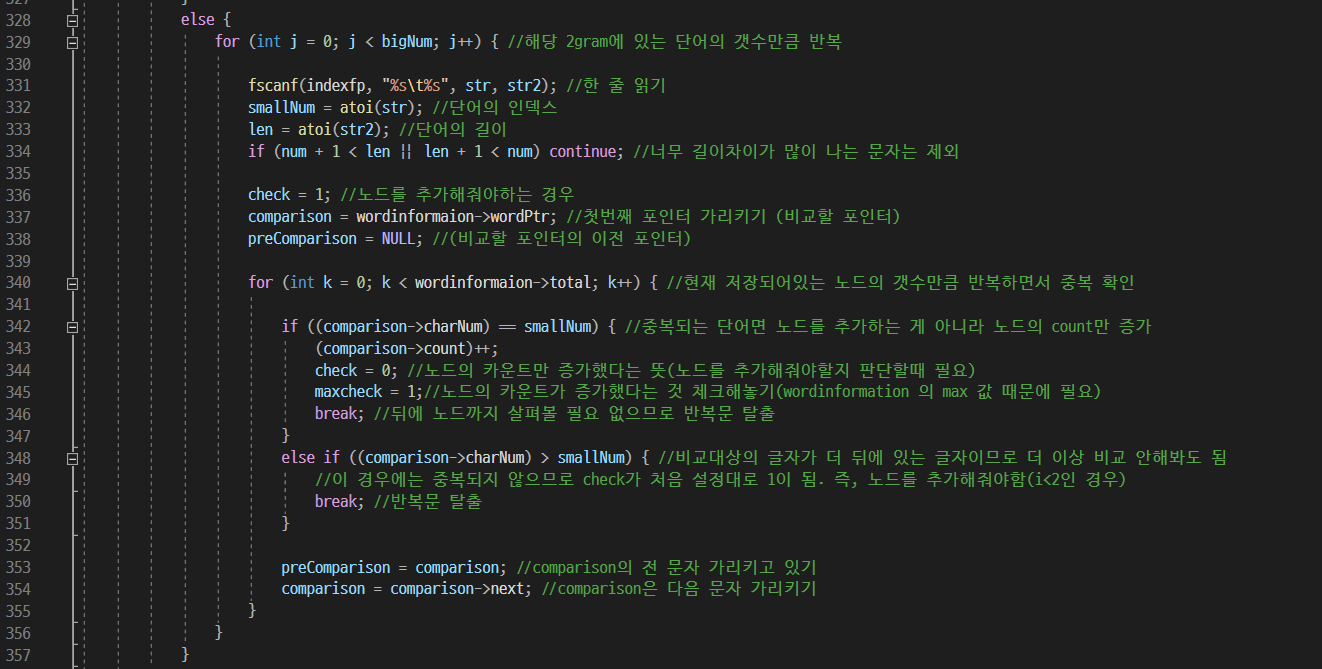
이 반복문을 통해 다뤄야할 2gram이 나오는 부분까지 계속 읽어오도록 하였습니다.



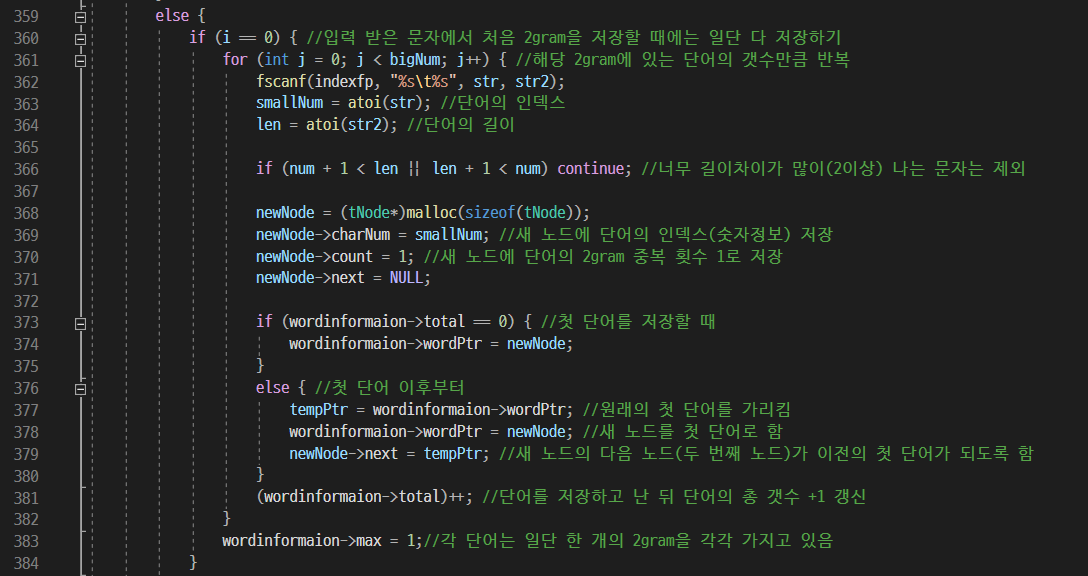
Index.txt 에서 원하는 2gram에 도달하였으면 해당 2gram을 가진 단어들이 총 몇 개 인지를 bigNum에 저장하였습니다.

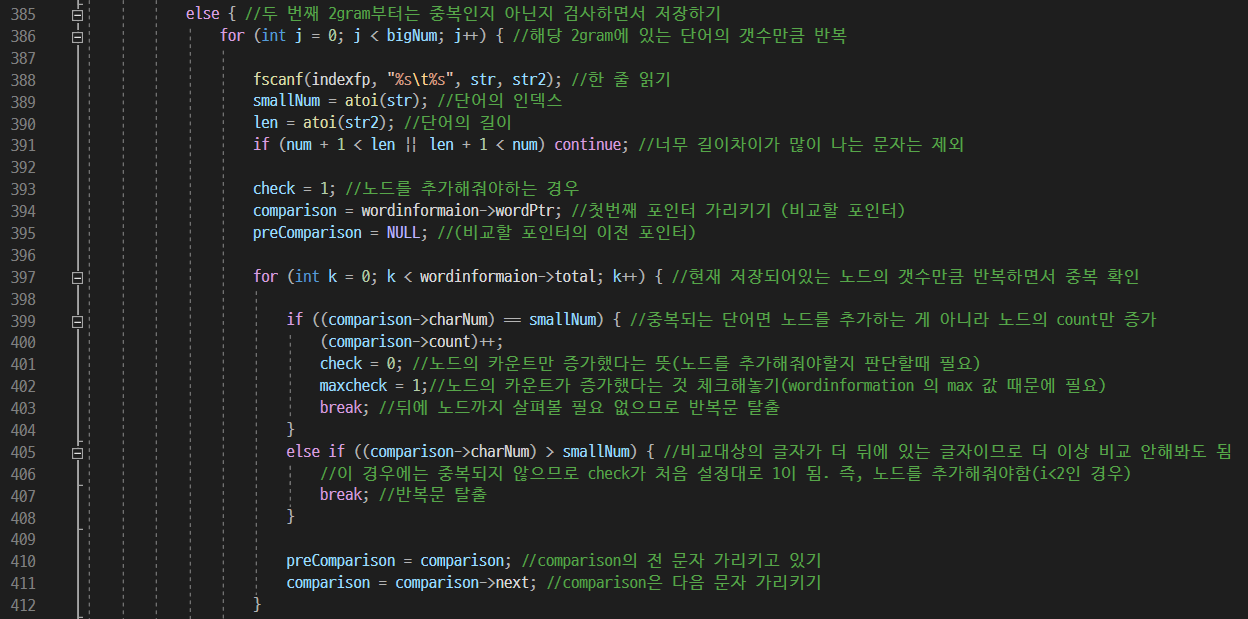
그 후에는 입력 받은 단어의 길이가 5미만인 경우와 5이상인 경우로 나눠서 정보를 저장하였습니다. 그 이유는 단어의 길이가 5보다 작은 경우에는 관련 있는 단어들이 제대로 추려지지 않고 너무 많았기 때문입니다.

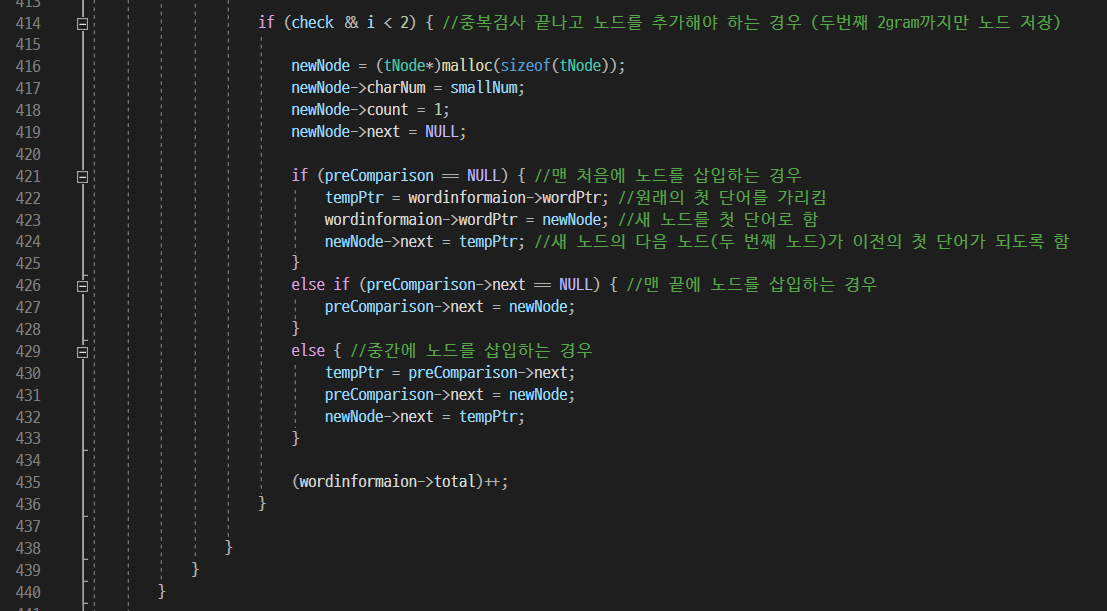
입력 받은 단어의 길이가 5 미만일 때에는 처음 2gram을 가진 단어들을 모두 메모리 할당하여 추가하여 주었고, 두 번째 2gram부터는 메모리할당을 하지 않고 중복되는 경우에만 해당 단어의 node를 +1 해주었습니다.



두 번째 이후의 2gram에서 중복을 체크하여 count +1하는 부분입니다.

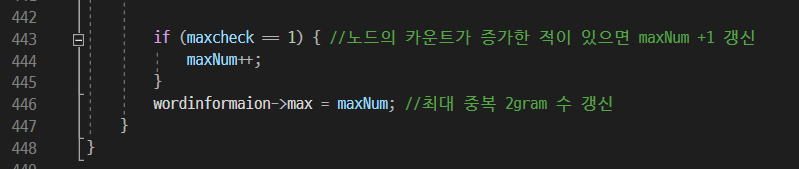






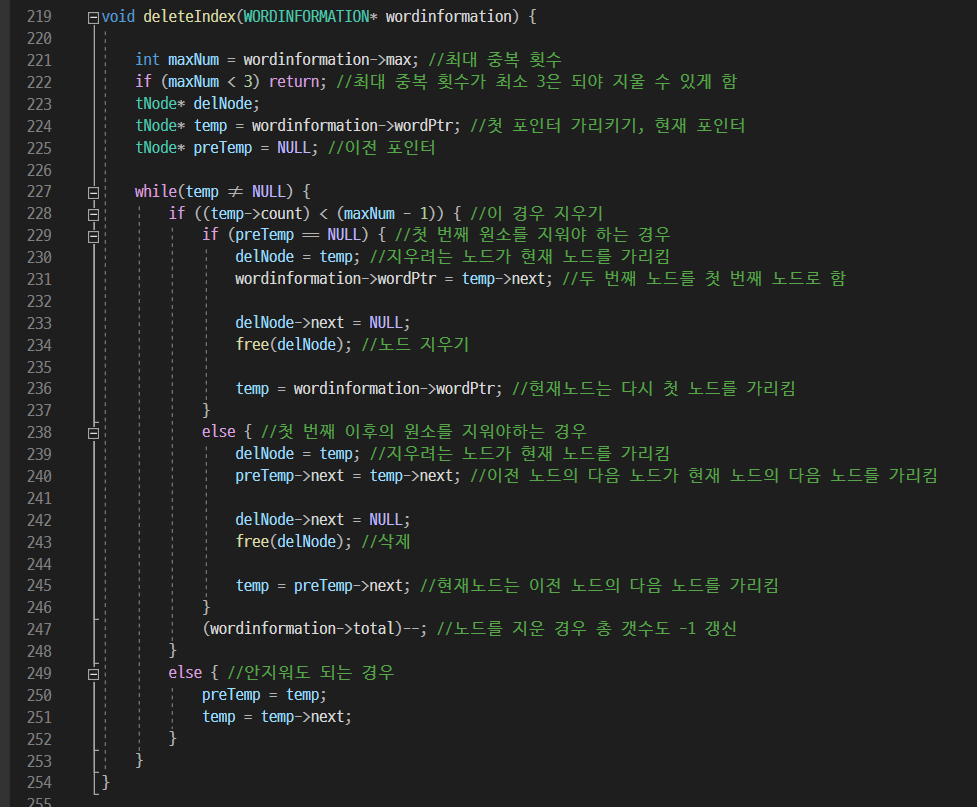
이 부분은 입력 받은 단어의 길이가 5이상일 때 단어의 인덱스 정보를 저장하는 내용입니다.

먼저 첫 2gram을 확인할 때에는 길이가 5미만일 때와 같은 방법을 취해주었습니다. 두 번째 2gram을 확인할 때에는 중복을 체크하여 중복인 경우 count +1을 해주었고, 중복이 아닌 경우 노드를 추가해주었습니다. 세 번째 이후의 2gram을 확인할 때에는 중복인 경우에만 count +1을 하고 그렇지 않은 경우에는 노드를 추가해주지 않았습니다.



메모리 할당하여 추가 혹은 count 추가가 끝난 이후에는 노드의 카운트가 증가한 적이 있는지를 체크하여 카운트가 증가한 적이 있는 경우 구조체의 max에 최대 중복되는 2gram 수를 갱신하여 주었습니다.

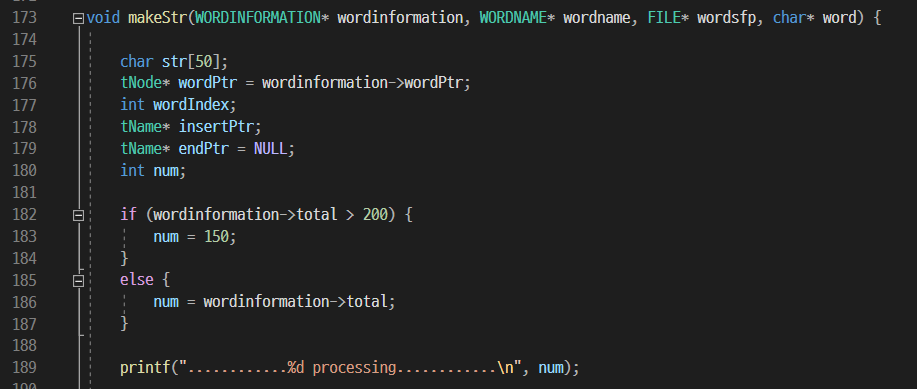
1. **deleteIndex 함수**



deleteIndex 함수를 살펴보겠습니다.

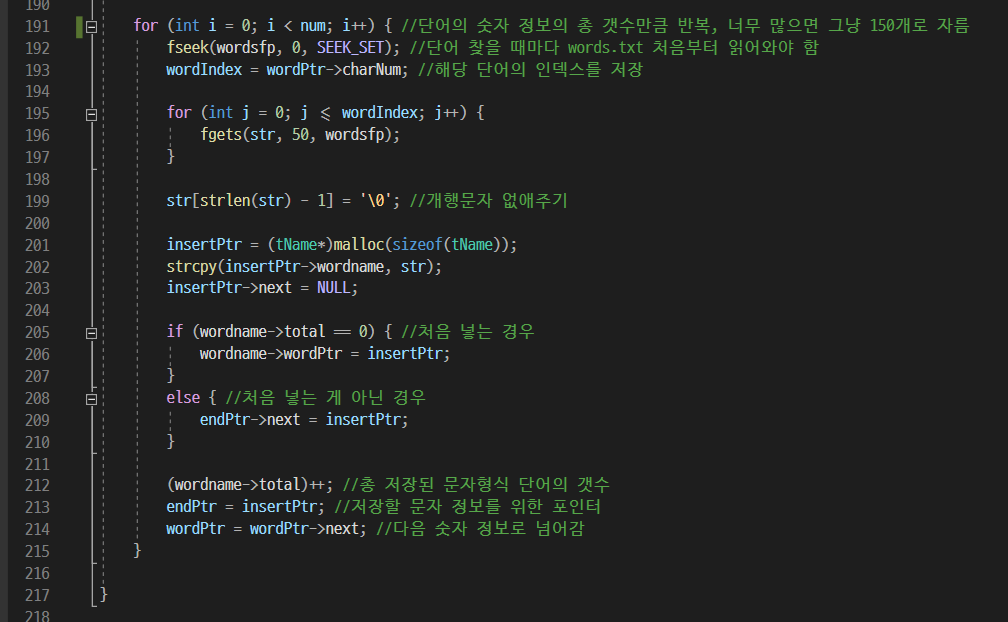
deleteIndex 함수에서는 구조체에 저장된 최대 중복 횟수와 저장된 단어들의 중복 횟수를 비교하여 그 차가 2이상인 경우에는 단어들의 노드를 메모리 해제하고 삭제하였습니다. 이렇게 하지 않으면 저장된 단어의 개수가 최소 10000개 이상이었기 때문에 필요한 함수였습니다.

1. **makeStr 함수**



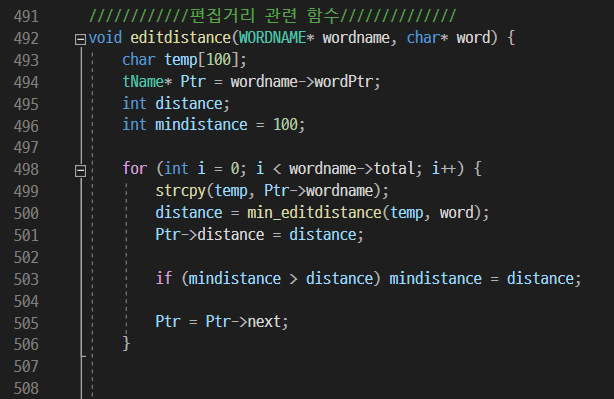
makeStr 함수를 살펴보겠습니다.

makeStr 함수는 관련 단어들의 정보를 인덱스 정보에서 문자열 정보로 바꿔 주기 위한 함수입니다. 그렇지만 이 경우에도 입력 받은 단어의 길이가 작은(대략 4이하) 단어의 경우에는 관련 단어들의 개수가 너무 많기 때문에 인덱스 정보가 200개 이상인 경우에는 그 중 150개만 확인하여 문자열 정보로 변환하기로 하였습니다.



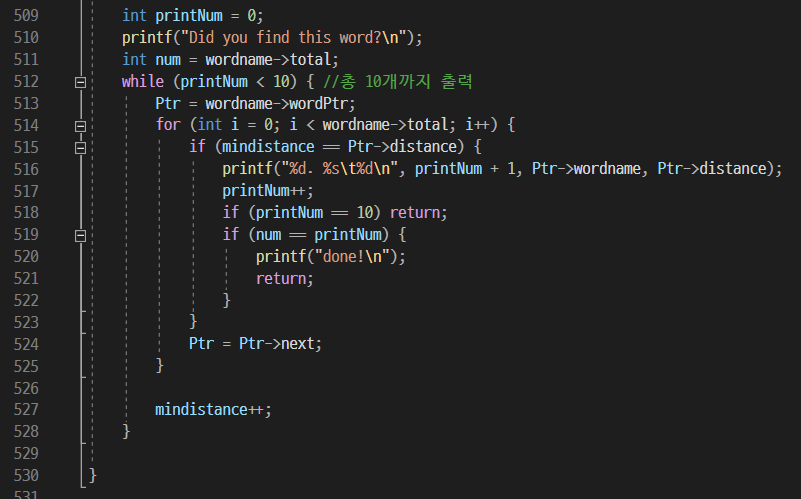
변환할 인덱스의 개수를 추린 다음에 그 수만큼 인덱스 정보를 문자열 정보로 변환하여 저장하였습니다.

1. **편집거리 관련 함수**



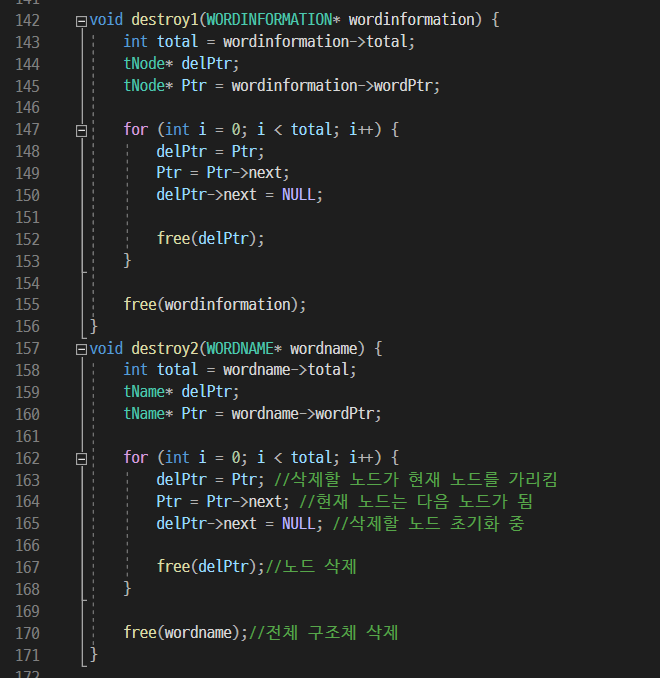
editdistance 함수를 살펴보겠습니다.

이 함수에서는 문자열 정보를 가진 구조체를 이용하여 문자열을 하나씩 읽어온 다음에 입력 받은 단어와의 최소편집거리를 min\_editdistance 함수로 구하였습니다. min\_editdistance 함수는 이전 과제에서 사용한 함수에서 필요 없는 부분을 제외하고 그대로 사용하였습니다. 구한 최소편집거리는 각 노드의 distance 부분에 저장하였습니다.



모든 단어들의 최소편집거리를 저장한 후에는 최소편집거리가 작은 순서부터 알파벳 순서대로 10개를 출력하도록 하였습니다. 만약 관련 있는 단어가 거의 없어서 10개 이하로 단어들이 추려진 경우에는 추려진 개수만큼 모두 출력하고 그 이후에는 “done!”으로 표시하도록 하였습니다.

1. **메모리 해제 함수**



마지막으로 메모리 해제를 위한 함수를 살펴보겠습니다.

두 함수에서 모두 구조체의 첫 노드부터 차례대로 노드를 해제하고 마지막 노드까지 모두 해제한 경우에는 전체 구조체를 해제하도록 하였습니다.

**Ⅲ. 실행화면 캡처**

