**דוח - פרויקט מבוא להנדסת תוכנה**

בתרגיל 7 התבקשנו ליצור תמונה משלנו, יצרנו תמונה פשוטה עם צורות קלות יחסית ומקור אור בודד:

Shape

Description automatically generated with low confidence

**בשביל שלב 8** – הפרויקט כבר חיפשנו תמונה משוכללת יותר

ובתחילה הלכנו על שטח עם רקע של דמקה

Rectangle

Description automatically generated with medium confidence ואז גם ספירות

ואתם הבונוס של הצילינדר הסופי לתמונה.

A picture containing checker, chessman

Description automatically generated(לא הכי מרנין אבל היי זאת התחלה)

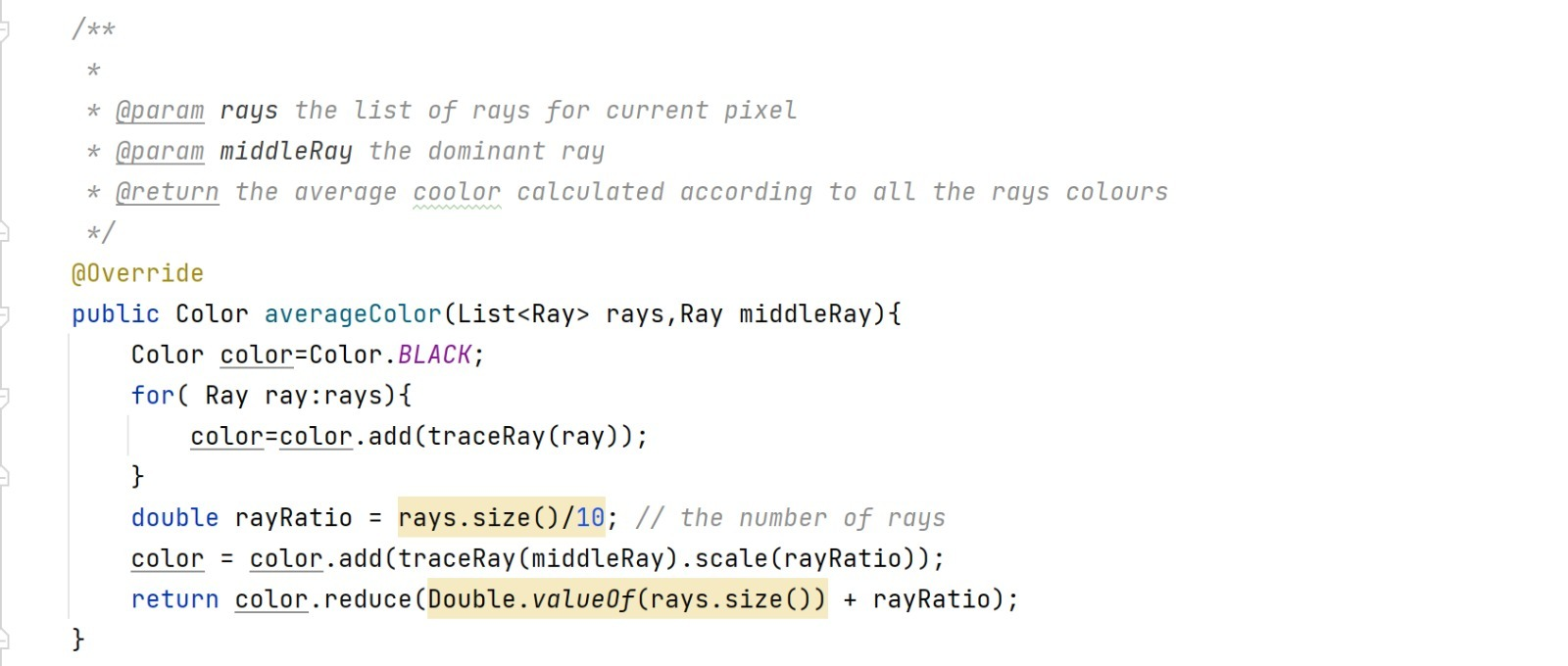
כפי שרואים נוספו כאן השתקפו ושקיפות וכן ספקולר ודיפיוז(לא ברור כלכך בשל האור החזק מדי כאן בתמונה)

A close-up of a toy

Description automatically generated with low confidence

כאן הוספנו GLOSSINESS שזהו אחד מהשיפורים שהוספנו לתמונה כפי שאפשר לראות מהספירות הזוהרות והתחלנו לבנות את השולחן כפי שניתן לראות מהצילינדר( המרצה דרש שנעשה תמונה מעניינת יותר...)

וכן בתמנוה כבר הופסנו **ANTIALIASING**



Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

התנסינו בשיפור הזה עם תיבה:

כאן בלי שום שיפור

A picture containing night sky

Description automatically generated

כאן עם ANTIALIASING ההבדל ניכר כמובן

A picture containing text, night sky

Description automatically generated

בנוסף לאחר שבנינו את התמונה הבסיסית:



הכוללת שולחן – 2 צילינדרים

דובי- ספירות ומשולשנים משולבים יחד לצורה מסובכת יותר

קוביות- צורה משוכללת שיצרנו בעצמנו המורכבת מ6 פוליגונים

ספירות

קטר- המורכב מצילינדרים עם קוביות וספירות ופוליגונים וכן עם עשן המורכב מספירות

כפי שנית לראות האור חזק מדי בתמונה כך שם הGLOSSINESS והשקיפות הרבה עוד הדרך ארוכה

וכאן הוספנו את הבונוס של

**הזזת המצלמה:**

כאן הוספנו את אופציית הזזת המצלמה עי נתינת נקודה- והמצלמה זזה לשם

או נתינת וקטור וע"פ קוסינוס הזוית בין הוקטור הקיים מצלמה לVP והוקטור הרצוי- מוזזת המצלמה

A picture containing colorful

Description automatically generated

כאן הזזנו את זווית המצלמה כך שהרכבת נראית הולכת לכיוון אחר

שיפור נוסף שהוספנו הוא

**צללים רכים:**

ע"י בניית צורת עיגול שטוח שיהווה בסיס לBEAM של הרבה קרניים שיחזור מהצורה לכיוון האור וע"פ ממוצע הקרניים – הנתקעות בדרך בצורה אחרת מחשיכה או מגיעות חופשי מתקבלים צללים רכים ואמיתיים יותר

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated with medium confidence

כאן טסט ראשוני שהרצנו:

![A picture containing light

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4R/aRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA3OjExIDAzOjEwOjM3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwNgAAkpIAAgAAAAMwNgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjowNzoxMSAwMzowOTo0MwAyMDIyOjA3OjExIDAzOjA5OjQzAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAADi4AAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAuAEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8ppwFIY4CngUDHqKkC0FIkValVKktEojqQR0FJEgjpwipFWF8qjyqB2GmKmmP2oFYjaOomSmS0RMlRMv50yGRlcVGRTJYwimEUEjTSGmISkoEJVa/i8y0b1X5hQBhUUAdWKcBSGPAqRRQUiRRUqrSLRMq1MqUi0idY6kVBnA5PtW2Hw1XEz5KauNyUVdluKylk6Jj61bTSJW/wD1V9BTyGnFfvZ6+RKnJ7Il/sWX1/Son0mdB93NZV8kja9KWvmWm1uipJbPGcMhFQmL2rwatGdKXJNWZej2Imj9qhaOsyWiB17CoWTFMzaImWoWWmQyMioyKZLGmm0EjaSmIKQ8jBoA52ePyp3T0NR0AdYKcBSKRIBUiigpEyiplFItE6LUw2oMn8q0oUZ16ipQWrKbUVdlm3tpLggn5V9K3bPTVAHy195Qw1PBUfZw36vuYQvUfMzat7AYHy1oxWIx92uWrWO+nT0LS2A/u0NpwI+7XL7bU39mU7jSEdSCgNc9faE0eWiH4VGIowxdPle/RmE6bjqYkkBRirLgiqrx9h1r5WUZQk4y3RL1IGixVd0pGbRA61Ay1RmyFhUZFMzZGRTTQIQ02mSJSUAZWqxYkSUfxDBrOoA6wU8UiiRakWgpEymp0pFom3hFyfwq1ZWzSuHfr2HpX13DuEUKcsVLd6L9TCtK8lBHS2VqBjit21tunFehiKh10YGvBb+1aEVv7V5FWZ6NOJaWEY6U/wAkelcrkzS5G9upHSqFzYhgeK1p1GmTKKkjl9W0cOCyjDDvXLS25jJUjkda481op2rx66M4nGzsVZI6qyJXjIzaKrrVd1qkZNEDComFMzZEwphpksaaaaYhKQ0CK99F5tq4xkr8wrBoA6zNLupFChzTxIfWgdyRZD61KkxzTjFykordj5rF23QzSjPQV0tjCABxX6UqSw9CNFdEc9L3pOR0NpEOOK2raLpXkYiR61FGtBHV5Fryaj1O1aInVadtrBshsQpULx5HSnFjizMvLUMp4rjdZsNpMijp1rt5PbUZU+6Ma8banOyx1TkSvljCSKki1VdapGMiu4qBhTMmRMKjNMhjTTTTEIaSgQnWueuI/JndPQ8UAdJmlzQMM0oNIBwarNsNxLdhXq5LR9rjoJ9NfuIqO0Gbmnx9DXTWacCvucW9R4daG9ar0ratl6V4FdnrUkasI4q2gry57nU9idVJ7U/aRWDZg2IRUTrTTHFlWZMg1zup24ZGGK78NK0iqqvE4q6h2SsuOhrOlSvAxlP2eInHzOTdFORapyLXOjKRVcVAwqjJkLVEwpkMaabTJGmkoEJWVqsWHSUdxg0Aa1GaAFzRmgBQa0rdcRL6nmvpuF6d8TKfZfmY13okb9gOBXR2favpMUb0Dcte1bNt2rwq56tI1IelXIhk4ry6h0y2Nq0s1ZNzVNPZJsJXtXnOq+Y8qVZ85lSLtYioGrrid0dSvJWNfrkGuyh8RrL4Ti9UjxcZ9ax5krzs4jbEX7pf5HHHYoyrVOQV5qM5FSQVXYUzFkDVE1UZsjNNoJG0lMQlV72LzrVlA5HIoAsUUAFFACjrWwvG0elfX8Kx/iy9P1Oev0NuxPArobQ9K9vEnRQNu1bpWxbt0rw66PVpM1IGq9C+GFeZUR1PWJ0djOrRBcjIqxLIqISSOleRKL57Hizg1OxgzuC5NVmNd8FoenTWhXkNZN6eDXZR3NpfCcfq/wB9T/tVkTL1rlzte/Tfl+pxR6lCUVRlFeKiJFOQVXcc1Riyu9QmqM2MNMoIGmkpiEooAKKACigBV+8PrWxX2XCnw1fl+pz190a1i/AroLR+le3iUbUGbVtJ0rWt5OleJWR6lJmpDJ0q/HJXmVInbHVFyK5ZOhqVrt2HJrkdNXuYypK9yEvnvUbPVpGiRWmkwDWPeScGuuhHUKjsjk9VfLqP9ofzrPmFcue6On6M4qe7M+WqMorwkTIpyVVeqMWQNULVRmyM0w0ECGm0xBSUAFFABRQAVsKdyA+or67hWXvVY+n6nPXWxds5MHFb9rL0r6TERKos2baXpWtBL05rxa0T1KUjShm96vxTe9ebUidsJFtJhUglHrXK4m24vmD1qJ5gBQohoilPP15rGvJ+DzXdQhqc1WWhzF3J5t5GnX5s/lzUU1eZn7/ewj2X6nNR2bM+aqMteGhSKUlVnqjFldqibrVGbIjTaCBpptMQUlABRQAUUAFaVo+6ADuvFfRcM1OXGOPdMxrL3blqNtrg1s2s3Tmvtq8bozpOzNm3m6VqwT9Oa8etE9KnI0YZ6vRXHvXnVIHZCRaS496mFx71yygbqQG496gkuPeiMAcijPc9eaxb264PNd9CGpy1ZaGNbHzrqSXsg2j6mlmNfOZ5PmxjXZJE0P4dyhKaoymvJQpFOSqr1RiyBqhNUZsjNMoIENNpiCkoAKKACigAqxaSbJcHo3Fd+WV/YYunN9/wehM1eLRo1Ztpipwa/Tpq6OOLszZtrjpzWpBcdOa8ytA76cjRhuPersdz7151SB2QkWUufepBde9czpmykBuveoJLr3pxpiczPuLvg81g396egOSeAK9GhTS1Zx1plm3i+z2qofvHlvqahmbrX59iq3tq86nds7YrlgkUJTVKU1ijKRTkNVnqjFkDVE1UZsjNMoIENNpiEooAKKACigAooA0bWfzE2sfmH61YHBr9QyzFLE4WFTraz9UcU1yysW4LnacGtSC6962rQNaczQiuverkd171586Z2QmWFuven/a/eud0zZTGtd+9Vpbz3qo0yZTMy6vwAeaj02Fp5ftco+Uf6sHv71nmlZYXBSl1ei+f/AMaa9pVSNGR6pytX54j0pFGVqpyGrRhIquarMapGLIWqJqZmyM02gkbSUxCUUAFFABRQAUUAKrFGBU4IrRguFlGDw/pX0vDmP8AY1XQntLb1/4JjWjdXRPUsczIa+5aujmTsXYrz3q4l571yzpHRGZOt57077b71h7I15yN74DvVKfUfQ1rCiROoLZ2j3TiW4yIuoX+9W3vAAA4A6AV8LxBjliMR7KD92H59TvwlPkhzPdkLyVUlevBRvJlSRqqSNVIxkVXNQMaoyZCxqNqZDGGm0EjTSUxCUUAFFABRQAUUAFAODkU02ndAW4r0jiQZHqOtW0kSQfIwNff5PnMMTBUqrtNficlSnZ3Q+nB2HQ179jNMeJ3Hejz39ankQ+ZkbTE8Fqkt9u8E84Pevmc7zmNGDoUH7z3fb/gnRQpOTvI34pPlFSGTivg3fqeunoQvJxVaR6CZMqu1VnaqMmyuxqFjTMmRMaiNMhjTSGmIaaSgQlFABRQAUUAFFABRQAUZx0pptO6AlW4mXo5/Gni9lH90/hXsYfPsZRXLzX9TN0osDeSn0H4UedI3VzU4nPMZXjyuVl5DjTiiRGq5C3I5rx229WdETZhk+QVL5lZnSnoRvJVd3pktld2qu7UzNkDGomNMhkbGozTIY2kNMQ2igQlFABRQAUUAFFABRQAUUAFFABT1NAEyGrUTc0jRGpE/wAgqTzPeoN09BjPULvQJsgZqhZqohkTGoiaZDGE0w0EMSm0wEpKBBRQAUUAFFABRQAUUAFFABRQAU8UASLVmM80i4mhG/yinb6k2uNZ6iZqBMiZqiZqZDImNMJpksYabQSIabTEFJQAUUAFFABRQAUUAFFABRQAUUAFOFAEgqeM80i0XFal31JpcaXphamJkbNUZNMlkZNMJoJENJTENpKBCUUAFFABRQAUUAFFABRQAUUAFFABThQBIKmj60ikWA3FG6kWNLUwtQDYwmmE0yRpNNoJEptMBKKBCUUAFFABRQAUUAFFABRQAUUAFFABThQA8VMnFIpEm6jdQUNLU0mgQ0mmE0CEpKYhDTaBBSUAFFABRQAUUAFFABRQAUUAFFABRQAtOFADhUo6UikLmkzQMQmmk0CEzSUCEpKYCUlAhKKACigAooAKKACigAooAKKACigAooAWnCgBwp2aQxc0maBiZpKBCUUwG0lAgpKACigAooAKKAP/2f/hMehodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIj48eG1wOkNyZWF0b3JUb29sPldpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQ8L3htcDpDcmVhdG9yVG9vbD48eG1wOkNyZWF0ZURhdGU+MjAyMi0wNy0xMVQwMzowOTo0My4wNTU8L3htcDpDcmVhdGVEYXRlPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCAEtAaQDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD4ZApwFJT1HapLACnqtIop6ikUKq5qVVoVelSqtBSQKtTJHRGlTolK5okIsdTLHTkjqdI6RaiNSOp0iJp8cdWY4qg1USOOHpU6Q1PHDVhIaDVRKyQVOtufSrUcHtU6W9QaqJUW3qVbf2q9HbVMtrSvpc0USgtufpThbmtJbWni19qLlcpl/Z/84o+z/wCcVrfZfal+y+1Fx8vmZH2emNbmthrWmNa+1Fw5TGa39qja3FbLW3HSoWtuOlO5DiY7QVA9v7VsSW1QSQe1O5DiY7wVA8PtWtJb1XkhpmUomTJDUDR1qSQ/lVOdCvyqMuaq5k0Z0y7TheW/lUHlbc+p6mtEwbPc1DJHTMmig6d6gZavOtQPHVGbRTZaiZatMtQstMhlcimMKmZaYRTM2REU0ipCKZTuSRmmsO9SMKZTFYbSUp4ooEMopxFNoAzfEVj/AGhpM8QGX27l+o5ryyvZSNwIPSvK9fsTp+rXEOMLu3L9DzQBnUUUUAFFFFAHuIFPWkFOUVBohwFSqtNQVMtBaHKtSotNVanjXFItD0WrEaUyNKsxrSNEORKsRx02JM1ajTmpNkOji9qtxx0kcfSrcUfSkbRiJHFVqOH2p8MNWfkgj3uQoq6VKpiJqnRi5SfRas20irsSOCp1jVeWOKZbedfNiBCF/vHjNdJpPhUyMrSbnb3r9ayrw4xmIiquZS9lHtvL/gHBLGxvy0lcx4YzLgIhb8K07XQbq46IB9a7jS/C6qB+7x+FdTY+HAMfJX31HhLIcCvep877yf6Dj9Yq7u3oebW/g2aTBJIH0rQh8Cs396vWLPw6MfcrWt/Do/uV1SwuVUtI4eK+R3Qwk3u2eMf8K/Y9C1QTfD+ZfuGveY/DY/u08+GR/c/SvNrYLKKytPDx+46Vg6i2Z85XPhG8twcR7hWVPpssHDxEfUV9MzeFFbOUz+FYWpeB4pgQYlP4V8xi+EcqxV3h5OnL70P2daG+p88vb+1Qtb+1eq618OTHuaAFDXE6hos9i5WaMqP71fnOacNY7LLza54fzL9RKS2ejOZkt/aqslv7VvSWvXvVWS2r5O43B7mDJb9eKqSQ9eK3pbfrxWfdRlTsUZkPIHpVIwlExbhSvyqMselVmtggPdjyTWw1r5annJPJaq0sPoKpMwlEx5IqqyR4rWkjqpLF1qzFxMySOqzLWjJHVaSOmYtFCRKgZauutV3WrMWVHWomFWmWoHWghkLUxhUjLTTTIZGRTGHepD6U08UySJqSntTDTJCmU+kIoAbXGeP7E5t7tR/0zb+Y/rXZ1n+ILH+0NJuIQMvt3J/vDkf596APKqKDRQAUUUUAe6LT1pg6VItQakiCplFRrxUi9qC0TR1PGBUMdTx0maIsRrViNfaoIyOKsx1JrEsxL0q3EtVoquRYPtUm0S1ClW4o+lQQ44pLq++z/u4xulavZyfJ8XnmKjhMJG7fXol1b8gq1oUIc8y3cXqWvyKPMmPRO341c0rRpr6US3GWOfu9qh0HRWlbzJPmdj1NejaLpIUDiv6vyThnL+F6K9muat1k/wBOyPBdSpjJ+98PYTRdBVQPk/Su20vRgNvy07SdNGBxXXabpo44oxmMbvqe9h8Ml0ItP0ccfLXR2Okj+7VvT9PHHFdDY6f7V8jiMW+59FRw6KFppI/u1q2+kjj5a1rXT+nFa1vp/HSvn62Kfc9inh12MKPR/wDZqb+xf9munisFwOKsLZr6V50sWzqVCKOPfRRt+7VK40IMD8ld79hX0qGTTlPaiOMfcToQaPLb7w6rKfk4+lcXr/guK6jYNHn8K92utJDfw1z+paIGB+WvYw+YfZeqZ51bBprY+U/EfgqbTmZ41LR9x3rkprbr7V9Sa94aSVXBTt6V454w8GyWjPNbx5Pp/WvlM84apYuDxeXq0lq49/T/ACPFlGVF2lseXXMZUhVXc5HHt71Taz8tSOrN1PrXQtY+SDnlyeWNU5rfnpX5HZxdmKUepz01v14qhND14roJ7es+eDrxTRzyiYU0PWqUsWc1szw4zxVKaPHSrRzSRjzRVUkStaaOqM0dWjnkjOkjqs6VfkWqsi9aowaKTLUEi1ckWq7rVGTKrLUbVPItRMKCGRMKaakNMpogjamsKeRTKokbRRRQIZQehpWpKAPLPEVh/Z2sXMQGE3bl/wB08j/PtWbXaeP7H5be8UdP3bfzH9a4tupx0oAKKKKAPdaetRbvel3+lQalhWqVWqnvpd5Hegdy+rbTU6TD1rMWQ1IsvvQWpGtHMvrVmOYetYqydOamjm9amxakb8Uw45q7bze9c1HcEdTVu3uGZgoJ5rajQniKsaNNXlJpJepr7RRTb6HRSXYhiJByx6VY0TTzdTeZJkknrWRbxtczKp5Fd9oNiEVeK/s/hfh2jwvlyi1etNXk/wBPRHzVStLGVb9EdBoemhccV3ek2OMcVi6PacDiu10q2HHFLG127n0OFpJWsa+l2Y+Xiur02z5HFZum244rqtNt+nFfEYqtufUYemaFhadOK6GzsxxxVSxt+ldDY2/A4r5TEVT36NMmtbQelaUNvtxxRBD0q5FHXhVJtnbJ8q0Gxw+1TLBU0cdTLHXI5nLKoyp9nprW/FaHl0jR57VPOyFUZkyW/tWfdWKsv3a6CSH2qpNDXRCo0zojUvucNqmkhgflrgPEXh9ZY2BWvZby0EinI5rk9Y00MrcV9Dg8W4tanPiKCnE+W/F3ho2MzSIny9xiuOntsV9D+LNBWaNwVrxTWdMayumQjjPFfLcWZNGUf7Sw0dH8S/X/ADPnEnTlyM5G4h61m3ENdFcW/PSsu4h68V+WJilE5+4h61nzR1vXENZlxD14q0ccomLNH1qjNH1rXnj61Qmj61ojmkjKlTFU5lrSmWqciVRzSRQdeKrSCr0i1WkWrMWVGWoWFWXFQSCmZMgamNUjDrTGpkMjamsKkpjVRLI2Hekpx6U2gkQ02n0ygChrlj/aGl3EOPmK5XPYjnNeVMCpIIxXsnHQ9+K8u8SWP9n6vOgGFY71+h5oAy6KKKAPbt1Lu96i3Uu6golDU7dUIanbqVgJd/vTlaoAw704N70irlhWqRZO2aq7qcGyaQ7l5ZO9a+lx5jLnj0rAtwZpkQfxHFdZDGI0VF7DFfuHhdkaxuPnmFWN40tv8T/yPMx1blhyLdm1odr5kma9F0S3wq5Fcd4dg4XjmvQdHi6V/RmYT3Rng4WsdXpEPTiuz0qH7vFcxpMf3a7DS4+lfn+MlufX4aKOl02LpxXU6fF04rntNTpXU6evSvjMVJn01BG7Yx9OK6CzjGKxrBelb9r92vlsRJnuUlZF2FelXIkqvCOlXYUJryZsxqSJUSplSpbe3LVbWxbGcfpXFKokedOokynsoK1Za3Ze1RsvbpUqVyVK5VkjqrNH7VoMvFV5VrWMjeEjJuI/asPU7UMvSukuFrLuo9yEV6FGdmmejB80bM8z8QaeGVuK8X8caLjMijBFfQet2+Q3FeXeLtPEsT8V9rg3DEU5UKusZKz+Z4GOpW97seE3EFZVzDjtXT39sYppIz1U1jXUPWv59zLByy7GVMLPeL/Dp+ByRfNG5zlxFWZcQ9a3rqLrxWXcR1wI5powriOs6aOtq4j61mXCda1RySRkTR4qjKvWtSdOKoTrVHLIz5lqtItXpF61UkWrOeRSkWoJBVqQVA4qjJlZqY1SuKiagzI260009qY1UiBhplSNTGpkiU1qdSNQA2uQ8fWO6OC6UcqdjV19UdashqGl3EJGSVyv1FAHlFFKylWIPBHBooA9no3U3dRuoAfuo3UzdRuoAk30u6ot1LuNAEvmU4PUGaXcaBm3oMZlvN3ZBmunjGZFHvWH4Zj/ANHlfuzYrft+Zh9a/s/w6wKwOQUpW1qXk/0/A+dxUuet6HZ6DHgLXe6Oo+WuG0PAC13WkHgV7+O6nrYTZHaaSv3a67TOq1yGlN92uu01ulfC4s+swx12m9BXTaf2rltNbpXTae3SvjsSj6OgzqLCt61+7XOWL9K37V+K+Yro9ynsakPataxh8xhWPC3Suh0YBpFzXiV3yxbOHEvli2dVomh/aAGK8V0Q8Pwbcd6l0WNVs1IrQ9K+LrYicpuzPz3EYqpKo7M5PVtB8lSVGR64rlbqHy2Ir1C6USwuD6V59rKBZGx616OCrSnoz1cvxEqmkjEeq8lTyHrVeRq92J9LAqTis64HBrQmas647120z0aRzGsR8HivOfElv8r8V6Tq33TXA+IFyrV9Zl71Rx4xaM8M8SWwh1HpgOMVzl3Hya7DxonlzK+PusP8K5q8j618Rx5hVTxlLEpfHH8V/wACx8/h9VKPZnN3UfWsm4j610F3HWPcJX5iipowriOsu4Stu5Xk1lXC1ojikjHuF61nzLWrcLWdMvWtEckkZ8i8VTlWr0y1UmWrOeRSlFV3q1KOtVmFUjBlaQVE1TyCoWpmbIzTDUlMpogjamt0FOPSmnpVEsbSGlooEMooooA8x8S6a1nrE6IvyMd4wPWivQbzS4r2YSOMnGKKALtFFFABRRRQAUUUUAFHrRRVdUB2Hh6PZpkZ/vEn9TWvb/LItZmh8aXD9K0YziQGv744cpqGTYWC/kj+R8vVf72XqdvojcCu50lvu159oknAruNJk6VhjY7nt4WR3elv0rrNNk6VxGmS9Oa6zTZelfDYqJ9Th5Ha6fJ0rpbGTpXG6fN0rpbGbkV8jiYH0VGR2FjLwK3rObpXJ2M/St2zm6V8zXge3SkdJDJW5pd15cgNcxbzZUVpW9xtxzXh1qd1YutTU4s9d8O6urRqjNXSLIhGQwxXjen6s0OOa3I/FDquN1fJ4jL5Od4nxOKyubneB3OqahHbwsAwz9a8+1W6EkjEetMvNcab+I1kzXRkauvCYR0tWduCwLo6sWSTOaryNSNJUEklexGJ78YDZmrOuX4NWZpKzLyYBTXbTjqd1ONlcxdUk61wmvNlW+lddqk42tzXDa5N8rc19VgYao8vFSWp5T44/wBTL6jmucm/eRq394Zre8bTf6PL9KwyubWL/cH8q8TxBpp4LDS7N/ofP4V/vpoxLpOtY90nWt27XrWNdLX4fFnTNaGJdLWRcr1rbuhwayLpa2RwyMi4Xis6cVqXHes24rRHJIz5l5qlMOtX5hVKbpVI5ZFKQdaqvVuQVWkHWrRgys9QtU8lQtTM2RNTDUjVG3WmjNjDTKkPWo6oTG0UUUEjKKVutJQAUUUUAFFFFABRRRQAUUUUAFH/AOqiigDstBbdpcP41oj5SKx/DEm7T2T+6xrXNf3pwpiFickwlRfyJfcrfofLV1y1ZHS6LP05rt9Lm+7Xm2k3Gx67fSrn7tduNpno4WZ6Fpk/Sur02fkVwOl3PTmur0+56c18Tiqe59Rh6h3On3HTmuksbjpzXD6fc9Oa6OxuunNfJ4ikz6CjUO2srnpzW7aXPTmuMs7rgc1uWd305r5yvRPapVDsbW6rUhuM965O2vPetW1vOnNeFVonqU6iejOkjuMd6sLdH1rDhvBVlbgHvXnSpluCka32gnvSedWetx70pn96z5CPZFxpqhkmqs1wB3qtLdD1rSNMpQUdya4uNtYt9dcHmlurz3rEvrzrzXpUKOpFSooqyKWqXXynmuH1y6+Vua3tUvOvNcNrl78rc19dgaOqPn8VU3PP/G11tt5Tn+E1Ey7bWIEY+UfyrP8AFF19ouIoRz5kirj6kVrXn3cD0r5HxHnyUcJQW75n+R5OX+9UnL0MK8FYt0Otbl3WLdd6/DInoVDGuV61k3Na9z3rIuq2RwTMq4rMuB1rUuO9Zlx3rRHHIz5qpSdDV6aqU3eqRyyKclVZKtyVUkq0Ysgk71A3ep5O9QN3pmTI2qNutSNTGpozYw9aZT2plUIZRQ3Wigka3WkpW60lABRRRQAUUUUAFFFFABRRRQAUUUUAbnhWfbcSwn+IZFdNXDaddfZL2KTsDz9DXcghgCOnUV/XHhbmSxWUPCSfvUn+D2/U8HHQ5anN3JreTy5BXWaPecDmuOrW0u82sBX67iKfNE5qMuV2PS9NuunNdVp9305rzvTb37vNdTp9505r4/FUT6TD1D0Cwu+nNdFY3nTmuCsLzpzXQ2N905r5XEUT3qNU7uzvOnNbdredOa4ezvenNbVrfdOa+drUD2qVU7a2vOnNatvecda4u2vvetS3vunNeLVw56VOqdfFe+9W4733rk4773q1HqHTmvOlhztjWOoF970pvveucGoe9Dah71h9WZr7bzN6S+96qTX3vWPJqHHWqc+o+9bQwxlKt5mjdX3XmsK+vuDzVe71HrzWFfajgHmvXoYZ3PPrVhmqX/XmuF17UQFbn9a09W1Lr81ef+I9WCxvlv1r7DAYW7Wh85i69k7mXat/aXiiBeqQhpW/AcfriuivD1rD8C25kivNQcYMreWh/wBkdf1/lWxeNnNfgPiDjli84lRpvSkuX57v/I7MtpuNBSf2ncx7usa6PWta6brzWNdNwea/N0dNQyrk9aybmtS5PBrIuj1rVHDMzrjvWZP0NaFweDWdcVojimUp6pSdDVuY1Tl71SOZlWSqklWZKrSVaMGQSd6gbvU8lQNTM2RtTGp7VGetNGbGtTKe3WmVQhh60UUUEjWpKVutJQAUUUUAFFFFABRRRQAUUUUAFFFFAB611+g332yxAJ+ePg1yFXtHv/sF4rH/AFbcMPav0TgXP1kOawlUdqVT3Zfo/kzkxNL2tO3VHa06KQxuDnFRqwZQQcgjINLX9sRkpxTjqmfN6pnT6Xf9OcV1WnX3TmvNrW6MTDmul03UunNeXicPfU9LD1raHpNhfdOa6GyvunNeeWOodOa6Cz1DpzXy2Iw7Peo1j0Gzv+nNbNrfe9cDaah71s2uo9Oa+erYY9inWO7t7/jrWjDqH+1XEW+o+9aMOo9Oa8ephj0oVjtYdQ6c1aXUPeuNi1LpzVhdS964JYU641zrl1H3obUv9quV/tL3pG1T3rP6qX7Y6WTUuOtUp9S96wJdU/2qoXGq9fmrenhPIwliEbN3qQGfmrn9Q1Tg81n3mrcHmue1LWMKfmr2cPg9djzq2IViTWNW2gndXnetX0mo3UVpBlpp2CKBzVrXtdEcb5bj61L8PNIe6nfWblTt5SAHr7mu/NMdS4fy2pjau6Voru3seJHmxlZUo/P0O0s7OPStPgtY/uxoBn1Pc/nVG6k681duZqyLqSv4urVp4irKtUd5Sbb+Z9y0oRUV0KF21Y9y3WtC6k5rIuX61COSoyhdNzWTdN1rQupKyrhq1RwTZRuDxWdOau3Dc1nTN1rRHJIqTGqcx4q1M3NU5jVnNIrSVWkqeQ8VWaqRgyF6hapnNQtTIYw/eqOnt1plNGbGmo6fTKoljaKKKBDT1pKKKACiiigAooooAKKKKACiiigAooooAKPaiijzA6Pw7qgZfssp5/gJP6Vv+1efKxjYMCQR0xXV6LrK3yiGU4nA/wC+hX9P+HvGcK9KOUZhK01pBvr5ep4uLw7T9pDY16sW12YWAJ4qtRX7+9dGeWtNUdVp+qdOa6Kz1L3rziG4eI9a2LLVSuMmvMr4Xm1O+lXsel2upe9bNtqPfd+tec2erDj5v1rZtdU/2q+frYTyPXpYg9At9S960YdT6c1wMGqdOavxar0+b9a8qphPI9CGIR3cep9OasLqnvXDx6twPmqddW/2q4pYPyOlYhHaf2t71G2re9ch/a3+1Ucmse5qVg/Ip4lHVTat1+as+51b/armptZ4PNZV5rXU7q66eB8jnnijoL7WQAfmrltW14KrHd+tY2peIRGpO79axLG3vfFmoC2tshOsknZR6163sqOCoyxOIajCOrbPKqYiVWShT1bNXRtPn8ZawIRkWcZzNJ2x6V65GsdnbxwRKEiQAKB6CsvQ9JtvD+npbWy4HVn7sfWrMk/Ar+SONOKZcR4vkpXVCHwrv3kfZ5dg1g6XNPWbEuJuprMuJODU083UVmXE3WvzpHpTkVrqTrWTcSdat3M3Wsu4krVHFNlO4krLnerlxJ1rNnarRxyZVmas+ZutWp261RmatEcsmVpDVSU9asSN1qpIetWc8iCU1XeppGqBzVGDIZKiapHNRNQQMPemU9ulMamiBjdKa3SnNTW7VRI2iikNAhtFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFNZscD71AAzEcDlqdETEQykhs53Z6UirjnvS1UZOnLng7MN9DqNJ8QJcARXB2TdA/Y1tH2rz2tXTfEEtnhJQZYv1H0r+ieEvEr2cYYPOdtlP/P8AzPIr4K/v0jrqMlTkVWs9QgvlzDIGPde/5VYr+icLiqGMpKph5qUX1R5Ek4OzRahvnj71qW2sEYyf1rBpR6g1tKlGW5cajidlb60OPm/Wr8OsDj5v1rgVmdejVMuoSL3rjlg4y2OqOJaPQk1j/aqUa1gY3V58urOvrTv7YeuZ4FXNvrbO+bW/9qoJtcAH3v1rhm1aRqhfUJX74pxwKFLGNnX3XiAL/F+tYl54gaTIUk1iNI8nVifxqzZ26yMGfkZ+7XiZvneVcPUnPGVFzdIrd/IKar4qXLBGhpGj3niOcYLJBn5pD0x7V6roen2uh2iwW6YHdj1J9Sa5vQZhHaxqF246hRW9DMQvJr+TeLeNsZxLU9jH3KC2iv17n3GX4GnhVzvWXc2GuB1qGS4z7VTNwe361DJce9fmdtD3XIlml9+Kz55s96Jp85qhNNVGEpEdxNWZcS9amuJves6eTrWiOSUiGZ6zpn5qxNJVCaTirRyyZXmfrVGVutTzPVSRqtHNJkMrVVkNTSNVaRqowkyGQ1A7cVI5qB2qjJjGNRtTmpjGgga1ManU096oga1RnrTqbTJCkalprUAJRRRQAUUUUAFFFFABRRRQAUUUUAFFFNZj0HLfyoAGYjgfepVXb7mhVC+5paACiiigAooooAVXZGBVirDoQa17TxNcwYWQCZffrWPRXuZZneYZRPnwVZx8r6fcZTpwqL3kddb+JLSbhy0Tf7QyKvx3kEwBSZHz/tc1wVKGK8g81+r4DxXzKilHF0oz89mcMsBB6xZ6DS1wEd1NH92Rh+NSDUrof8t5P++q+rp+LmFt+8wsr+TRzvAP+Y7umPNHH991T6muGa+uG6zOf+BULIWwSxP4mubEeL1Pl/2fCu/m/wDIqOX/AM0jsJNVtY/+WgY/7PNQNq5dv3aYH941zsZ9atwt2PSvgMz8S87x6cKMlSi/5d/vO+lgqUN9TahuWY/M+f5Vq2c+3HOMc1z8L8dK1rOTlc1+V4jEVsVN1K83KT6t6ns01GKtFWR3eg3WYTk9+ldFHP8AgPrXFaLNtyAe9dFDcYGM1wSPZpy0Nf7Rgcn8qZJMfWqPnccGmPcGoNnInknz3qjNN15pss/Xmqc02TVIxlISabOaozSdadNNVKWXrVpHNKQyaSqE0lSTSdapySdRVo55Mikk61VkapZGqrI3WqMJEbtxVeRutSSNVdmqjJjGNQMeae7VExpmbG0xulK1NamQNNManNTWqiWNbpTaVqSgkKZTjTaACiiigAooooAKKKKACiiigAooprMeg5agBWbsOTQq7fc0iqF+tOoAKKKKACiiigAooooAKKKKACiiigAooooAKkXpUdPXOKALKnpVmFvmqpGTViPI5qTSJoQt2PArTtW7flWTCx4NX7djuGKlnRFnWaPNjOBxW7FcVy+kzfMVBrZSX+dYyR6VOWhqrcZHNMa49Ko+fTWm75qLGvMWJJuuetVpZaikm96rSzZzzVJGbkLLL1qnNLRJLVWST3qkYyYk0lVJGp0j1XkerMJMbI9VZGp7tVd2pmLYyRqiZuKcxqF2qiGMY1GxpzGoyaDNiMabSk01qaJG0ynNTGNUSJRRRQIa1JRRQAUUUUAFFFFABRRRQAUUUjMV4HLfyoARmI4HLUqrt+tCrt+tLQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFOSm05aAJo/SrEf6VXjqeOky0W7fr6Cr8DfMOeazYTzV+BiP8Khm8TodNkwCa1Y5sVhWLfu/StBZulZs7YvQ0PO60xp6qed701pqVi+YnkmqCSaoXl96geamS2Pklqs70jSVDJJVGUmEklVpHpXeoHkpmLYjvUDNSs1RM1UZsRmqFmpzNUbUEDWNMJpxNMpk3EppNKTTGNMkDTKUmkpkhSNS0ygAooooAKKKKACiiigAooprN2HJoAGYjgctSquOe9Crt9zS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAU5abT17UASJ1qZe1Qp1qZaTLRYiPSrkJPFUk61ch+8Kk1ibNq22NfpVpZdvWs+JjjAqfzDUWOlMt+cKY01V/MpC9KxVyVpKiZqjaSoWk96ZLZI8lQM9NZ6ieSmZNg0lRM1IzVEzVRLFZqhZ6Geoy1BmDNTCaGNNJpk3Ammk0Gmk0yRCabS01qYriUUUlAgY02iigAooooAKKKKACiiigBGbsOWpFUL9aVV2/WloAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKeKYKevWgCRamXtUS9qlXpSZaJo/Wrdv94YqknSrkGRz3qTWJoK2O9Seb71VV/enbqk1uWPNpvmH1qDd70jSYoC5K0lRM/vUbSVGz07E3Hs9Rs1NLUxmpkis1RM1IzZpjNQSwLU0mkJppNMi4E0lFNJp2EDUwmgmmk0yQJpKKKBBTSaVjTaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAVaetNpy0ASLUi1GtPXrSZZMnarcZ+UVTj61aVqk0TJg1L5h9ai3UbqCrkm73pC1R7vems1AXHlqazUwyUwsaCbjmemFqaWppagQpNNLUmabmgkUtSUlITVCBmprGkJpM0ybhmm0UUCCkJoptABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFKtADqVaSnL0oAevanr1pi9qkWkyiVPlqQNUQOaXdUlku/3oLVFuo3UDJN1NLUzJooAduppNJ04pKCWBNJmkY0lAgzSZoY0zNUApNN3UZpDTJAmm0UUCCkpaaaAAmkoooAKKKKACiiigAooooAKKKKACiiigD/2Q==)

כפי שניתן לראות ההצללה היא רכה( כאן במידה מועטה יחסית)

וכאן תמונות מהפרויקט עצמו- לפני הצלללה רכה:

![Icon

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SZcRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA3OjExIDAzOjEyOjQzAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4NQAAkpIAAgAAAAM4NQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjowNzoxMSAwMzoxMjoyMAAyMDIyOjA3OjExIDAzOjEyOjIwAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAFLAAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgArwEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A1FYMuRS16tOSnBSPz/EUXRrSpvoxruka7nZVUdSTiqM2sWkY+VjIcfwipqVo09zfC4CtiH7q07lCfXJnyIUVB6nk1nTXM9x/rZWb2J4rzKuIlU20R9Xg8ro4dXauyNBzT8Vyvc9unrE7DRPE1uDbwX4MYjAHmdQcdM1111PDc2aSQSpLGX4ZGBHQ+laUn75niVbDSiuhSrT04/uHP+1/Sumt8B5GWq+ISfmZDanIuotLvbyi2NueMdK24Lxy2YnBQrnNRQk3ZDzCkoylPpb8blgXkvfB/CnC9fPKqRXZY8PmYG9JBGwfnUHmH0qJU+ZGtKu6clITzD6UnmH0rn+qLuet/bcuwnmn0qZL544wiovB6mmsJEmedVGrJEElw8jliBk+lRmRvWpWXUb81jmnmuIlohhdj1J/OozXVClTh8KscNSvVqfHK4w1l63cxW2mStI6ruwoyev0q6jtFhho3qx9TzvULsXcqlQQijAzVLFeWfWPc+gvCn/Ip6V/16p/KtitlsZM8RWVrKxVyu87ckZ71mzavdS8KRGD2UVNLFSVPlRyYnKaVTFOtLrbQpO7yHLuzH3NMxWTbk7s7oQjBWirIMUYpFDkHNSYqXudFP4RMVJFNLA26KR0PfacUk2tUU4pqzNODxHqMJG6RZADyHWtW38ayR2rwyWg3MPvo3T8DWrquUbM5qeEhTq+0gQDXrRsbhIpPX5elbeha/YG5SCW6jjg/iaT5cfTNTGo4LmW5OJw/touL6m82paYzt9nv4JYwfvBxSpd20hIjuImx6OK9ClVUoKT3Pma2GqU5NW0QstzDEm95FC+uaZbXcVzGXTIAOPmq+eN7EfV58jqW0RNSZ9asxGGWMHl1/Oo3uoI13PNGo9Swo5kUqcuxBJqljGhd7yEKOp3iqk3iTSIVDNfRtk4wmWP6VDqwXU1jha0tolCbxnpSEiPzpeMgqmAfzrMuPHJxi3su3WR+h+grKWKXQ7KeVzfxuxk3firVLrcBIsKntGuP161jSySTuXlkZ2PdjmuadSU9z1aGFp0fh3GYoxWZ0Hv3hX/AJFPSv8Ar2T+VbFbrYze54J5+60eNjnHSs3FccDqq6pMMUYqzEMUYoAcg5p+KlnRT+EMUYpFhikxTAMUYpAGKBlfukj6U7iav0Oms5WbTI0OSMDBz6Z/xpWkfdtVjgH5uat3drE01Bc0Wuh0Gmyu9khLHIyOTViYnyZOf4TXqxd4JnxlVJV2vM821N3+2t87dB3qkSxGCxP1NeY27n1KhFdBuKMUrsoMUYouAmKMUAJijFAHvvhb/kVNL/69k/lWvW62M3ufOKysST60/FckTrq7JC4oxVGImKMUAOQc/hUmKl7m9P4RMUYpFhijFABijFACYoxQB0Nif9AjHof6VFIHF732kjpW0Tmm7HSaQxNoR/dYgVZu2K2kzDqEP8q9Km/3dz5fERtimvM861If6a30FU8V5b3PpgxRigAxSYoAMUYoATFGKAPevC3/ACKul/8AXsn8q166FsZvc+ddVsLrSULSpwThWHIJqrZ3n2jKMuHAzkdDXJDWNzprP3rFzFGKZmJijFMB6Dn8Kfioe50U/hDFJigsMUYoAMUYoATFGKAN6x/480H0/lUrAeZWqOeS1NTR3w8sfqAetXNRfZYy84JGBXoU3+6Pm8RH/bV5tHn1+Sb2TPbiq2K84+hDFJikAYoxQITFGKYBikxQB7z4X/5FbS/+vZP5VrV0LYzZ5Vf+VdwPDKAysMEGuKFrDZ3MkCcsO56kVw0n0OurHZklFaGIYpMUAPQc/hT8VLOin8IYpMUiwxRigAxRii4Biml0HVgPxo1Fobdiym3UKc/KDVkj5s1sjCRPaTeRcq56dD9Kt6rcpIiRxvu/iJBrphO1No8qrh3LFQqLY8+1PUUi1GdNhO1sZB9qqf2pH/zzb865rHoOQ5dUhP3lcfhmj+07f0f8qOUOYcuoWzDJcr7FTUi3ls+cSrx68UrMOZDxNEwyJFI+tP4PcUajugxRigZ7t4Y/5FbTP+vZP5VrV0LYyZ4lPfqAcZNYr4mvDcE/MF21ww0Z21b8uo+itDnEooAcnX8Kfipe50U/hFpMUiwxUcsscIzIwWgL2KcuqIMiJC3ueBVV9RuGzghR7CqSM3IrtNK/3pGOfeozk9c1ZNzutJUDS7YgcmMZq8eppmchKaeBmqIPP9V51S4Pq39KpYpmb3DFFABiigQmKcGZTwxH40ASJdTp0lbj15qdNTmX7yq36UuVFKTPorwm/meEtJfGN1qhx+FbFarYR843F6qozM2FAySaj067N1uKrmPqG/pXJGOlztrS2RfooMAooAcg5p9Szop/CFFIso3l6IT5ceDJ39qyWZnYsxJJ7mrijOT6DaKokTj1pGdFHzMo+pxTA7zSwBptuAcgIOauHrTM5CVHKdsTH2qiDgdU/wCQlPz/ABf0qpTM2GKKADFJQAYpMUAGKKAPpPwd/wAibo//AF6R/wAq261QHzb/AGdA3+sDSc5+Y1djVUjCooVR0AriUr6HXUXUfRTMgooAcg5p+Kl7nRT+EDwMnpUEl5BGcF8n0HNCTZZz2p3bJcPIkRZG5DE9KzG1CZum1foK3jHQwloyM3U7dZDTDLITku351fKTcYSScknNFMD0nSpXGnQgNjCj+VXfPk/vUrEt6CieT1qC7uZPLAyOT6U1FXIbPONaJOsXJP8Ae/oKpeY4GA7fnVmT3HC4lGMSNx71ILycfxZ+oo5UFyVdRf8AijU/Q4qVb6I/eDLUuI7lhJY5PuuDTqhpoYUUAfSPg/8A5E3R/wDr0j/lW3WqA+esU5elcC3OyfwjqKsxCigByDk/Sorq6W3AGMuegpWuzop/CZUtxLMcu5x6DpUVarQYhGRgjIqnLpsTklCUPp2pp2E1cpyafOnIAcexqs0bocMjD6irTM2rDaKZJ6FpTj7LEpPVAR+VaNBHQKozvvfjoOBTRLOC1n/kL3P+9/QVRq0ZPcKKACigQc9qsQ3kkXBO5fQ0mrjuaMM6Trleo6j0qUKzHCgk+wrJ6FLU+kPCIK+D9IUjBFrHkfhW1Wq2A+fiABmiuGJ11NgoqjIKKAHJ1qjqVu5cTLkjGCPShP3jeHwmbRWhQUuaACkOD15+tAaETW0D/eiX8sVC2m256bh+NNOwuVMlgNza/LDdOF7Kwzir39raiBxLEfYp/wDXq1I55RGS6tqcgGBbr68k/wBKpz32rPlUMaj1T/69UpEOJkvYXTuzMuWJySWpv9n3P9wf99CnzEOGof2fc/3B/wB9Cj+z7n+4P++hRzC5R40ycjJKD2Jpy6VIc7pFHpjmjmHyEi6Uo+9KfwFSLpkIxksfxpcw1A0dNsIVn3iMEKOSea2QoUYUAfQVjJ3ZolY9y8M/8ixpv/Xun8q1a3Wxm9z57ySeafXFE6qnQKKq5kFFADk6/hUlQ9zop/CVJtPhlORlG9VqjJp06fdw49quMymis8UkZw6Mv1FMzWm4haKYBRQBHnmlzTRjIM0ZpkDD1opkvcKKLgFFAEyWs79IyPrxVuLTucytn2FQ5DsXlRUUKoAA7UtZ3uM9w8Nf8izpv/Xun8q1a6lsZPc8S0vw7eakqyK0MUbdGkcZP4da63T/AAXpsQDXMrXL+mdq18/iMdy3jT3Ma2NpuTjBmlP4W0abJazVCRjKMRisS/8AC2hQYxdzREDlQwYmuaGYVIb6nPPGqjHmmzktRtI7O58uKRpEIyCwwap17NCp7Smp9ztw9ZVqSqLqOTqfpUlU9zup/CFFIsKia2hfrEv5U02gIjp1uT90j6GoTpUfO2RhnpxVqQrDDpTY4lGfcU3+ypf+eiU+cViA6ZPu6p19aX+zbj/Y/OrU0YyQf2bceqfnQdNuP9j86fOibDP7Nn3clAPrTv7Lk/56LRzom2o8aX6y/pUi6ZEDy7H2pObCxItjbr/Bn6mpljjT7qKPoKnmYx1FSAUUwPcPDP8AyLGm/wDXun8q1a6lsZPc8s0v/kGQf7tXQ7L91iPoa+Er/wAWXqz4PEykq87d3+Yk91cCLaJnwTzzVHJzk1FzCpVnO3MzD1n/AI+U/wBys7NfUYL/AHeJ9zlf+5w9BydafXQz1qfwhRSNAooAKKACigBlLmqRjIM0hpkkZ6mimQFFACUUAFFABSUwPcfDP/IsaZ/17p/KtWupbGT3PJtEZm0mHcc4yP1rQr4bE/xpep8LjlbE1Eu7I7j7g+tVqxRxtamHrP8Ax9J/uf1rOr6rBf7vE+7yv/c4eg5Op+lPzW73PXp/CGaM0iwooAKKACjNADM8/jS1SMZBmkJ4pkoZ3pKZIUUCCigAooASimM9x8M/8ixpn/Xun8q1a6lsYs8K8O66LfSIYr2CVJQW3cDjk1tp4g08/wDLUqc9GWvkMVhZ+1k46nHjeD8dNfWaXvKWtlvqPuNWsRbmT7TGVU9jWHd+KLeNSLeIuR/EwwP8axo4Sc372hzZVwljMVWtiIuEU9e/yKD3kt63mSkZ6DAwMUzNfSYeKjSUUfRYrCU8HWeHpfDHRD0PJ+lPq3uFP4QopFhRQAUUAFFADO/40tWjGQlB6UEjO9FMkSigQUUAFFABRmmB7j4Z/wCRY0z/AK90/lWrXUtjJnzhHPCqqpkIP+1UUuo28cojfcCe5XA/WvInQnzNn3mAzjDRw0ISbukkNuJEaPdvjVQeTkVVhmtrlvkdyEIyR0NKnRlLodGNzHD4eDk3q9kjSjnhAwGx9amDAjIORXZGPKrHw2JxDxFaVV9SSM81Jmk9x0/hCikaBmjNABmigAooAj70tUjCQZpCeKCRpPNJmmSwzRmmAZozQAmaM0gHIjyNtRGZj0AGa1LfQp35nYRj06muvDYWVZ+R4+aZvSwMLby7HsWhxCHQrGJc4SFQM/StCqkuVtHdQm6lKM31SPkbU2X7YyxMTEANvP51A96fIWOQlip+Uk9qxSvudabS90pNMzZ2jAPpWrpEV9hvKi4Y8lhTdrailzSWrOmt7bYimXBkxzjpVmsGJKw+M81Jmoe50U/hDNGaRYZpNw9aAE8xfWk84elArieb7Unmn0FAXFz0p1UjKQlGeKCRvmewpNy/3fypI1smGVPcijjswp3IcEGDQcjsaZDi0T29lcXJAijYg9zwK17bQEXDXEm491Xp+dejhcE6nvS0R8xnGfQwydKjrL8jWit4YF2xRqo9hUle3GCirI/PqtadabnUd2eh6R/yCLT/AK5L/KrteFU+Nn61g/8Ad4ei/I+Ybiygum3Sp8w7g4qqdEsy+4hz6At0rhU3Y9HlJ4dNtojkR7jnq3OKvxnYO3NS5tlqCe5MGyKXNNO6MZrllYch5qTNS9zWn8IhYDqaaZfQUi2xhYnqaTNMQZozQIM0ZoAkzxRu4oE0LmkzxTJI80ZpFhmjqcDqaErsTkkrs0rbRbufBYeUp7t1/Ktq10i3t8MwMrju3T8q9jB4D7dX7j4fO+JN6GFfq/8AI0AABgYH0or2FotD4Ztyd2FHegD0PSP+QRaf9cl/lV2vAqfGz9ewn+7w9F+R82uu40gUDrXmN6nqwsLSAEnilc0cklqSDgUua0jsccmnJsfGefwqTPFJmtP4SEsSeaTNBQZozQAZozQAZozQA/PFGaCbi5ozxTEMzUkME1w+2KNnPsKcISm+WJFatCjTdSo7JGva+Hnb5rmTaP7q8n862rextrX/AFUShsY3d693CYFU1zT1f5H51nXEFTFt0qOkPzLNJXonzAUUwCjvQI9D0j/kEWn/AFyX+VXa+fqfGz9fwn+7w9F+R83g8UZFeU9zrTfQDj0ozSG5N7hmkzW8dhD0PP4U4uBSa1NoSSiNI7im5pFBmjNABmjNABmjNADs0ZoC44Grltpl1djKR7V/vNxW9KjKrLlicGNx1HB03Uqs2LXw/BEd1wxlbsOgFa0cUcS7Y0VR6AV7+GwkKC7s/Nc1zitj56u0eiHUV1njhRQAUUAFHegR6HpH/IItP+uS/wAqu18/U+Nn6/hP93h6L8j5sB4pc15T3OoM0maQBmnBT3rZPQuMbit8o4pmaaCejsSqeKRsUupr9kZj3owaGJO4maM0DDNGaBjxkkAd61bPQbi4USSsscZ98k104fDSrystjys0zSngafNLV9EbtrpNpakEJvcdGbnFXq+ho0IUo8sUfmGOx9bGVOeqworU4gopgFFABRQAUd6BHoekf8gi0/65L/KrtfP1PjZ+v4T/AHeHovyP/9n/4THoaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLwA8P3hwYWNrZXQgYmVnaW49J++7vycgaWQ9J1c1TTBNcENlaGlIenJlU3pOVGN6a2M5ZCc/Pg0KPHg6eG1wbWV0YSB4bWxuczp4PSJhZG9iZTpuczptZXRhLyI+PHJkZjpSREYgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdG9yVG9vbD5XaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0PC94bXA6Q3JlYXRvclRvb2w+PHhtcDpDcmVhdGVEYXRlPjIwMjItMDctMTFUMDM6MTI6MjAuODQ4PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwADAgIDAgIDAwMDBAMDBAUIBQUEBAUKBwcGCAwKDAwLCgsLDQ4SEA0OEQ4LCxAWEBETFBUVFQwPFxgWFBgSFBUU/9sAQwEDBAQFBAUJBQUJFA0LDRQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQU/8AAEQgAzgEuAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A7WGUTIGX3H5U+uV8KX0kOjx3l07Bbh2kO/8AhXoMce2fxqnqXxSsbf5bO2lu24G5j5a8jqDyfwwK+iwGcUauGUq8rSWjP5+4g4Jx2FzSVHA0nKnLVPok+nyO27ZqG5vLezQPcTxwITtDSuFBPXHNeTX/AMRtavjmOSO0XIO2FR6Huc1zdzcT3kvm3E0k8v8AfkcsfzrOvn1KOlKLZ34Hw5xVS0sZVUPJas9Z1D4k6LZ8RyS3jdP3CcfmcVyOq/FbUrsFbOCOyQ/xE73PB7nA/SuO8v2/Sk2e2K8KvnGKraJ2XkfomA4JyjA2bhzy7y/yLGpa1qGsYF5eTTqDkKzfKD646Z96pRR7ZFx6ipNvtT41/eLx3rx51JTu5O591hqFLD2hRioryVibywCOMd66v4b+PJfh5rj3wt/tdvJE0U0G/ZuBUgMDg4I69OeRxnI5vZz0o2+nBrjUnHY+hlGM0lJH2v8ACXxtoPiy1nbT71GvSAGtXO2VUXp8p9yemeorT8ZHGqRZ4Pkgdf8AaavhVQyMGU7SDkEda7XS/jF4s01ovM1SXUY4xtC3zGU7dxbG4nd3PfocCu3CYiNGalPY8zOcNUx+C+r0vi0PpsdPT9PxrrPA5/4/D/uf+zV816T+0R80Salo3y5O+a0m555GEYfQct3r0nwP+0H4PhinN1dXFlJIAUjuICD8u7gkZUZ+vevXxGKpVaLUXqfFZLleKweZU514Wir69NmdJ8SvElwurR2dncSW6W6fO0TldzMAeQPQY/Wug0Hxc2qaKtysu25iAWRcgkMOM/Q14xceNdM166uL3+07VnkkJY+YF564wfT+laPh/V47G6W7jdJoivAWQbZPbPSvNw9dwut7n0WcZfTxlSNRR1i7+vkfQMPiS+aGPc67tozlR1qdfE1yFwUjY+uD/jVDQNNl8SeGY9atARbsGJjmG1wFJGR2I79aq+vQ+uK+qw2IoYlNUpc3Lo/U/CcZQxOGqfvoct9V6G5H4ql3fPAjr/skjn9ak/4Sr/p1/wDIn/1q5/8A/VSMcfWuzlRwqcr7lpr7JJ2dfemG+/2P1qjFeQXE0kUc6SSRnDqrZK+xH4Gnsa46mDw9VXkrnt4XOcwy5tUpct/ItG+/2P8Ax7/61N+3f7H/AI9/9aqrH3pP84zWX9mYX+U9H/W3N/8An7+BZOof9M//AB7/AOtWnH4ylt7eKKG3jHljBaQls/lisAn/APVTTznnvVxy7Cp/CY1OKs2qx5XWLt9rU19cNM6RqzAA7c44H1qmb6XB5H5VET19PpTG9PwJrP8AsjL1JydJXOKfEGaVPddeQ5ruYgDzGx9cVVldmxkk46ZNM1C/tdMgM97cw2kCnBkmkCLz05OP8+tczqfxQ8J6XMkdz4gsVdhuASUPkZx1GR1rrhRwtFaKK+SOOVXH4p6ucvvOib6VDJ14OO3WvLtS/aW8H2fl+R9v1BmzkW9vjZjHXeV657Z6V51r37UWr30ezStKttNyP9ZNIbhuvUcKMEDHINE8fh6f2vuOuhkGY4l8yptLz0Pb/H98mn+D9TmkwE8vadzYADMFyT04z+lfJfjrxRBrEUNlakvFG255COCw4GPzNUvEXjPXvFeBq2qXF7GpDCF3xGCAQDtHGcEjPXBrC2183jMUsTO8VofqWR5XPK8PKlOV23fQg2V9M/8ABP1cfGXWTj/mATf+lFvXzbs9q+l/2Al2/GPWOP8AmAzf+lFvXJTfvo9+Wx9+UUUV6Jxn5pabrAu9JktjlXt+E6/d6D+VebXEIinlRSMBq1bXWPst4wjPDqVJ7VmyN5js3ua+Xox5ZNI+mxP7ykpvcg2Um32qfbRtrrPK13INlG2ptlG2gRDtpY1PmL9ak206Jf3i/Wk9i4fEifb7Umyp9tG2uY922xBto21PtpNvtTuBB5foKPL68Y+nFT7aTbQBB5Y9KNv19OtT7aTbRcLI6G2+KHjOytVtbfxdr1vbKCqwx6lMqAHqAobGK1P+F5eOz/zME2PeKI/+y1xW2k2VdOcqV3T0v2OSthKGIt7WClbuj0TT/wBobxvYRuj6jFebjndcW6kj2GAK9Qj+JOra94TglluljuZI4RIIR5fLBy3TnHyqP+BV817a9g8PoB4asGzzsQf+OA1208VWfuuTPKrZRgIPnVGKfodHpPja98KrPNbiJhIArl1zjHOf1Nd14L+Il9rrTQ3UUO+NQysoILAk9s9uK8X1a+jg1AQzgvHJBkLnjIz/AI12nw1kU64zfdL25wD16qcV6OAqVYVlGUrp9DweJsFgK2XOtTppVYrV+n/APXW1qZl4RVPrXJ+PvG2p+HrCGW0aIO7MDvjyOBmtyuD+LEi/2daJn5sudv8AwHrX0+MlyUZSifkOR0o4jMKdOorp/wCR5Gf2mvG//Pax/wDAYf41S1H9orxzqEaIuoxWe053W9uoJ9jkHivOttJsr414qv8AzH7N/ZOBi9KKOzuPjd45uIJIm8RXAV1KkokaMM+jBQQfcc1h3Hj3xRdQSQzeJNXmhkUo8cl/KyspGCCC3IPoetZGyk21m61R/aZ1RweHh8NNL5EG306elJs4x2/Kp9ppNlZuTe51RjGOkVYhZc9ee/NN2/5zVjbSbaVyiDZRtqbbSbKLgQ7a+lP2BV2/GLWOP+YDN/6UW9fOO2vpL9gpcfGDWP8AsBTf+lFvWtP40RPY+9KKKK9Q4j8eYWZMEnJzWnbp+6U+vPNdl8Rfg7f+E9NudS0+T+07eFC7wqmJRjuB3Hf8K8O0XXr/AE28WMGSdXcK0LEkk5IwM9Dz+lfNYe1ROSPo8dU5OWB6Hto21LtNG2tjziLbSbfapdvtRt9qdwIdtPjX94v1p22nRr+8X60nsXD4kWNtG2pdvvRtrlPd7EW2k2e1TbaTb7UxkW2jbUu2k20ARbaNtS7aNtAEO2jb7VLtpNtAiLbXrPh3/kXrcf7n/ota8r216j4fb/iTwL/sxn/yGtdFLc48R8JB4g043lwjq2x1j4b/AIEv9K6jwRIttr2neY+Bym7H8RQqP1IrLvNu5cj73FT2Uxtby3mDbCjqwb0wa9GhPlnFvoz57MKHtcPUh/Mmj2f1/lXnfxYI82z5G4RSH6A4/wADXoSsJUDqdwYZB+vINeS/F65Wa4vlQMphsmQk/wB4qzZH4MPyr6rMZ2wz8z8h4XouWZp/yp/5HzuVpNtTbaTbXxB+1EO32o21MV9qTbRcCHbSbam20baLiINlG2ptvtSbaYEW2m7an20m2gCDZX0j+waMfF7V/wDsBTf+lFvXzptr6O/YRGPi7q//AGA5v/Si3ran8aInsfdtFFFeqcR8WapqiSKylwpP5V8+ePPDuk+HfEn29Ilhe+c/vGOQknXjsCcE/gfXFei6h4kghyWlU9+vNeZePpv+EphjtFYRgSbgx6gdTj8q+OoKUJXPrcRGM6Tstivt9BxRtFS7aMV6NzxbkW2k21Lg+lG00ARbadGv7xfrTse1Oj/1i/Wk9i4fEizto2+1SYo21zHvdiPb7Um2pdtG00CsRbaTb71LikbCqSeAOaQEe33o21Q1DxFp2m5ElwryDP7uP5jx9On41g3fj8AkW1oSMkBpG/LirUW9jNzjE6zbRt9jXnl14z1S44WVIFxgrEgx+uay59SvLkKJbqaTb03OTitFTfVkOtHoj1NpY14aRVPcE16X4dmjk02AI+4mCGTjpgpxj8q+WG3OxJYsx7nrX1D4Lt0j8K6PKB872NuD9BGMVvTjy9Tlqz5lsbU8e9uewyKXb0z0709v9Z/wGkrojuebUlzaHoHhnxNbHQwLuZIpbZNrqTyyjoR/L615X481RX0vXNRYYUwTybSe2xiBWgy9sfSuZ+Ir7fBurjg77WXOf9xj/Su+riZ1qcactkeDgcqoYGvUxFLef4f0zwk/ECL/AJ8pP++x/hR/wsCH/nzf/v4P8K43b/OjbXFyI9P2kjtofHtm27zbeaP024b/AAqT/hOtO/uXH/fA/wAa4XbSY9qPZxD2sjvY/HGmu4VhPGD/ABNHwPyJNWD4t0jn/SuP+uT/AOFec7R24o2/hS9mg9tI9PXXNNdAwvoACMjc4B/WrKXMEihlmjKt0IYGvJtv+cUbfb6UeyXcarvqj17b78UhU+leURXtzA6vHPIjr0ZWINXrfxRqluuFu2YZz+8Ab9SM1DpPoWqy6o9I2819GfsJjHxc1f8A7Ac3/pRb18fW/j66UES28MnP/LMlf6mvqz/gn34mg1v4wazEkckci6DM+G5GBcWw6/jV04yU0OU4yWh9/wBFFFeocp+UN9q20cda50eILaHVUS4k2l1wHz8qkngn2PrWJNJrV4si2dgyNnak12wVQT3K9cCpPCXw+mtZpLvWb5tQmkO4wn7gOev+eOlfM06cVq2fU4utLktBHc7RRtp+0Um2rPIGbaNtP20baYxm2nRr+8X60u006MfvF+tS9i4fEizj2o2in0VznvdhmBRt96fj2o2/54peQGXrGtW+iQq8xy7fcjXq3/1q4DVvEl7qxIkkMUPQQx8Aex9ag1y8eXULmW4kztdh85xhQT+lYtxrun27DddxNn+4d3T6ZrthT0ucFSo27FzbSbaxpfGFggbaJHI6YXGarSeNItmY7Zy3+02BW3s5djDmR0W00ba5Z/GkpU7LRQ3YlyR+WBUH/CZXveKDP+63/wAVVqlJhzI6/b/nivqXwnC9v4Z0iGVdskdrCjLnOCEXI/OviWbxXqEzAq8cPGMIg/rmvs3w3rkX9j2/mqVbuFHGar2corUiUjppOpprVSbXLY/3/wDvmkGs2zsASy+5Wmou9zjluXP4hXIfElv+KZv07/ZJj/5DNdKdTtSD+9/8dNcD8TtehXQdbMTCRorGbA5Iz5bHn/PatYxbM5aI+ettJtrk/wDhMLzPMVv7/K3+NT/8Jme9oP8Av5/9atPZSOLmR0u2jbWAvjGDAzbyA45wQasp4psHYAtIme7JwKnkl2HdGrto2+1VodYsbhcpdxdcfO20/kat8HoQwqbPsGgzbSbal246jFJj8qQyPaaNpqTbSbaAI9vtX1d/wTcx/wALy1z/ALF2f/0pta+VdtfVn/BN4f8AF8dc/wCxcn/9KbWtIPUD9IKKKK7APyY21Lb53EU8pTo0w+a+SjvY+pq25Hck20m2nUV1HkjdtFOooAZT4v8AWL9aKdFjzF+tJ7Fw+JFvjmorm6gs4zJPKkSerHr7CotY1BdJsJLlvmIwFXOMknt615vfahcalMZLiQu2eB2HsBWdOnz6s9y9rHV33jaCP5bWFpjj7z/KB/jWFc+KNQuCf3/lD+7EABWTRXZGnGPQi5z3ibwr/bEz3UUhF0fvLI2Vbv36Vw11Zz2MpiuInjcckEfr6Y969aqOe3juozHMiyoezjNdMZ8uhzzpKWp5FS16DeeC9PusmMSW7cn92cjPuD/SsO48CXkZPkzRzjOP7p+uO351uqiZzSpOJzVFaVx4b1O3+9ZyMM4Hljdn34rOdGjYq6lWU4II6VV0Z2a6CV9h+G2DaeFH8Ld/QgV8ec19VeEfEFndW0c1vcRz20gA8yNgQGwOD6H1HvVPYyk7PU7Jl+akx7UqyLJ8yMrL2INL93r0/KhXsc8rXY1mEcZY/wAIya888cSGbwxrr5zusrg/+Q2rrdW1JGi8iFt2fvMvT6VxHjy+t7Hwfq7XEqwiS0lhTcfvOyEKB7k9vatYpo55PWx8w0UUVv0OPuJS0UUaiCnxzyQkmORo89dhxmmUVIGnb+JL+3x++3r/AHXGf/r1q2vjJW4uYNrf3o+R+XauX/SiocIvoUpWPRLLULbUF3QSq/qvcfUVZI7dK80jlaGQOjsjjowJzXUaB4kaaRba7OWY4jkx1PocVzzpcuqLjI6LbX1X/wAE31x8cNc/7F2f/wBKbWvme38O6jcjKWcgH+0Mfzr6v/4J6+G7rSPjJrVxcFAG0GeMIpyc/aLY/wBKxhJcyRrys/Qeiiiu8k/KllCqSeKjRty5HSoGZpMbj1qaP5YxzXydPc+kxD9xD6KOucc84oroujzQoooougCnR/6xfrTadF/rF+tJvQ0h8SF1fTU1bT5bZjtLDKt6EHOa81vtPuNNuDDcIVYEgHoG9wa9XqC8sbfUITHcRLKnYMOn0rOnV5ND2+W9jyekzXZ6h4CVlZ7Odkb/AJ5yjK/mOlc9d+G9Ss8b7ZnGOsXz/wAq7Y1Iy6kPQzs0bqa2VJDDaR1zxRu9s1p6CHbqN3tTd1GRTsFx2RTZI450KSRrIp6qygg0ZFGRQBSk0HTZm3NZxZxjhcVQtvDlnY3DzWpntZHyC0EzIcHBxwema3Nwqqx+b8f6CtIyfc5q0IvoSRzapbqiR69qQVAAv7xcgD3K05tY8TNC0Q8QMy4IV5LZWkAJPVs9eaRmO6k3VspStueZKEblCZ/E/lMI/EkzN2Vk2j0PIPHFc3eeD9Wv5BJdX63LhdoaaR3OPTJHTr+ddnupsjfKar2ktiVTjc4D/hAb3j/SIOB6t/hS/wDCBXv/AD3g/Nv8K7fNGar2ku5zeyicR/wgd7/z3g/Nv8KT/hA73/n4g/Nv8K7ik4p+0fcXsonGw+AbhmPm3cSLjgxqWP49Kl/4V/8A9RD/AMg//ZV1uR/k0v15o9pIfs49jm18BWQRQ9xOXxzyBz7DFWY/BelxxhWSSQ/3mc5/StrIXqcVetdFvrzHlW0m0jIZlIB/OodTuy1Tj0RhQ+HdNi2bbRCV6Fsn+db/AIb0cT30YtoRDEHDSPEgQDHPbvW3p3gv5t17IMf884jnn3NdNa2kNnD5UMYjT0WuapWTVkzSMF2JTz15B9a+hP2Hx/xdjVf+wJL/AOj7evnuvob9iH/kq+q/9gSX/wBH29Y0v4iLn8J9u0UUV7R55+U+maZeapcCGztZrybBxFBGzsQOpwATgfSvXfB/7MfirxAyyan5OgWm7DG5+eYjnlY1PqB1ZevGa2vg/qd3pPg21Flcy2oaV5HWJiquwbGWA4JwqjnsAK9BtvHms2zEm6EoIxiRRj9MV+FZhxRVo1Z4elGzi7X32Pgsz4+oUMVUwrptcjavvt1I7H9k/wAKRaWbe5vdQurxgP8ASwyptOBnCYIxkHg569axdS/Y9sJZFOn+Jrm1iC4ZLq1Wdi3rlWQAdOMfjXZW/wAUtRiRRJBDJj73UcVha58XNYvGeK1Ediqkjcg3t27kY9e3evChxDjFLmVVnlvjjCwh7RTb8rHmXiD9l7xBoiXU66xo01tGzeT5k7xSSqM44KbQxAyRuOOeTXkmp6bNpN/NZ3AXzoW2tsYMv1BHBr3S6vri+kMtzPJcS4xvlcscemTXjvjbH/CUX3+8v/oIr7DIM7xOZYiVGtayX6o9Xhriyrn2OlQcLRjG/nukYdPh/wBYv1pmadGf3i/Wvu3sfqUPiRfyaM03dRurmPc7C0tN3UbqBkdxZwXW3z4Y5ivQugJFZc3hHS5ip+z+Xj+4xGa2N1G6rUpLZisjl5/ANs6nyrmSNs5G4BgP5fzqlcfD+5Xb5F3FJ6+YpT8sZzXa7v8AOaN3sK1VaSFyo8+l8FapG+1UilH95ZB/Wq03hfVIWANqz5/uMG/rXpW49O3pRuNV9YkLlR5j/wAI7qf/AD5S/lWYdNvN3/HrPnP/ADzPp9K9h3H1qp/n9KuOIfYwqRVjy1tOvM/8es3/AH7P+FH9nXn/AD6zf9+z/hXq9JW6xDtsebKOp5T/AGdef8+s3/fs/wCFMfTrzb/x6z9P+eZ/wr1nIqKTofpR9YfYOU8nh0e/nyEtJjjrlCKm/wCEe1L/AJ85P0r0r3ozV+3fYw5dTz1fCOqMoPkDkd3Aqyvga/bBMsC+oyxI/Su5oqXXmHKjlIfAaK4828Zl7hY9p/Mn+lXrfwXp8OC6yTY/vt1/Kt39P0pGas/aSfUdkVbXS7OxIMFvHGwOQwHP51YooqG2x6BRRRSC4tfQn7EJ/wCLsar/ANgSb/0fb189ZxX0H+w9/wAlY1X/ALAk3/o+3rej/EREn7rPuCiiivcOA+DfhLeR3PguBUbLwyuknHRs7v5MPzrss1518EZopvCd00bh1+2MMj/rnHXoaqWHFfyrnEeXH1fVn8ucTU4084xMY7czf36jt3HvXPXX/HzLx/G3866QQnbya565hb7RLjk7zgfjXkR3PlZxdlYgryPxt/yNF/8A7y/+givXvLb+6frjj868e8asG8T35UgjeBlTn+Ecf59K++4PX+2zf939Ufq3hzTmswqTtpyb9N0Y1Oi/1i/Wos0+LPmL9a/Xnsf0VD4kX6WmUVynvX2H0UyikFx2aM02igLjs0ZptGaAuOzRmm5ozQFx2aqk9P8APpU+arM33fr/AIVcTGq9CUk5optJW1jzZbjqZIflP0pajlzt/CqGR9KM03NJVHMO3CjdTaKBBRRmjNAXCik3UbqAFpCaTNFAB1r6F/Ye/wCSsar/ANgSb/0fb189V9DfsPf8lY1b/sCS/wDo+3rej/ERM/hPt+iiivcOE/JP4OeJvEvw18MXGmzy2F68t204dQ7jlEXGeP7vp3r1CP48Txtm50dZExx5MpBz6nI6da8YsdT0+ytcb3hHUmRTk5HX9PXtTdY8WWGjwrI/nTKxwphjJU8cfMcA/gTX5DmGTQxWIlUlS36o/cMu4S8Pc7yynPM6VNV7e+7tSv3Z73Y/HjRZlT7XaXto7NtJCq6KPXOQT+ArmvE3x7sbW9nj0q1e9CtxcTExoeecD72PrivJbLxPbataia3mjjTkYkIDKR65NYGsaxp2iXEr313GX3N+5X53PXjHboeenSvKp8PYdVPgbfYwh4MeH9GqswTbp72lP3f8/kdprHxS17xBcQxXNwYYHzGY7X92vIHLYOW5A+n54tWcha3UkktySSc9/X8a47SLjSmkGoxwyo00alWySWUgEZBJGR+Pf1NdHBrFjtREmCccBsjFfZ5fl/1SV1DlVjm4kx3D1HLYZVklOMVCd7xjZWSfXd7mrup8TfvF571WWRZF3K2VPQg5p8LfvF+te49j8xg/eRp7vejd71Hupd1cp7t9h+73opm6jdRYLj6KZn3oz70WAfRTM+9GfegY/NGaZuFG6mA/NVWbnHof6Cp9wqqT83Pr/QU47nPW2JqMmmE0mfetjzpbklRynj8P60bqjkb5T9P60B3G7qN1R7vQ0bverMCTdSUzd70bvemA+imbvek3UhElJuFM3UbqBj91Jupu72oXLsAq7iem3uaaTbsiZSjCPNJ2Q7ca+hv2Hf8AkrGrf9gSX/0fb15Hofw31fVijzxCxtm53zfeI5HC9e3fHWvpT9lPwTZeFfHF9NC8lxdSadJE80hwNvmxtgDt0H5V72HynFODxEoWiu58PW4zyaOOp5ZSrKdWbt7uqXqz6pooorQ+qPwh+JUK6XqsVjbXMsls0PmvG8hbDFmG38AB69axdH8QyafBNa3ErNYyod0Z52nsRnoeld/4i8B2msqjWZWxdAeu59xOOpJ7c/nXMXnwnv5NsaX9vsb777SCPoK8qFSDir6nrKM47aHF6hq8DcKhdh0LVlzanLdScuzbjknqcnnPH416Pa/B14pIt9zFMCcu7A5HPYd66rRfh3o+k5kaH7XMRjdIo2jHHA/HvmreIpxRTjUmrSk2jH8IajrF/a2VrBpfmRRKkRn3FRjGATwQOPU/SvUNP0WO3VXlHmTYG4E5UHHapLWSO3hRFjEeAPugVZWRWwR0rilUVR+7oc0sPKk7yRKDgAAAAdABT4WPmL9ag3CnRN+8X61k9gg/eRqbuaN9RbhSbq5j3uxNvo3VBvC8k4HrUTXiL93LGgV0Xd1G6sxr526fLUbTM3ViadieY1TMq9WUfjTDeRj+LJ9hWXuo3UWFzM0jfJ2BJpPt4/uH86zd1LuosTzMvf2gf7lLu+79aobuatGT5RTREm2WC1G6oBN60qyZFaJnHKLuTbqZJMI+SM9sUzzPeorhsrQyoL3iQ3MTDBj/AFpPMgP95T6Dmqu6k3CoTsdNovdFv902MS4P+0KXyTztdW/GqeRRkVV2ZunT7Fto5F6gn6c0xsrnORUAmePo2D9a6Xw/4T1vXmBitmjtuMz3C7Vxz0z16ds+9dFGjWxEuSjFyfkeRj8ZgMspOvjKypxXdnP7vermmaTe6zcCCytpLmQ9kXIHuT2HuePpXq2i/CzT7XEmpH7dLzhPuxjkHPHJ/E49q7G1s4LGERW8McMYGNsaBR29PoK+3wXC1epaWJfKu3U/Ac+8XcBhHKjlMHVl/M9I/wCbPMdF+ENxNsk1S5ECkZaGH5mB44J6evTPTrXoGk+F9L0ND9jtEjYkEyNlnP4nJrV3D0xSfTivucHlOEwX8OGvdn89Z3xpnWeyf1mu1H+WOi/AXopr0z9n3/kdrn/rxf8A9DjrzI16b+z7/wAjtc/9eD/+hpV5n/uc15FcD/8AJRYT/F+h9EUUUV+WH98n463Fv5ZG3njmolV5M8Yq/wCWJOc89KTyT2Oa+RlU5ZWPoKdSlJLmZV+znB3En2pdoToMVY8tx2zTBGWPp9ay577nYqtKKumMV+auwv8AuxUSRIvXk07dt6cVpRd5HnYrExqrkiTbvenxP+8X61X8ynRP+8X612PY4YP3kau6mTXAiXJ79Kj8yq94xbaa5up7bdlcR5mk5Zs03d71CGo30zIm3e9G73qLd70bqAJd3vRu96i3UbqAJd3vRu96j3UbqAJd3vU+75RVPdU+7gUxEu7rTkb5ag306N8g/WhdzOV7E+6o5m+Wk3VHM3y1TJi9RuTRn3rQ0TwxqniGQLY2csybtrTbcRr04LHjOCD6+1eheH/gyiqk2sXJY9fs9ucA9OCxHIPPTH1r1sHlOMxz/dQ07vY+MzzjXJOH4v63XXN/LHWX3I8ytbae8nWG3hknmbpHEhdj6gADJrtdC+Emq6lGst7Iunxt/Cw3SY+nY+x9a9Y0nQdO0OMpY2cVsDwSi8np1PU9K0Mk/wAq+7wXClGnaWKlzPstEfzpn/jLjsU3SyikqUf5nrL7tkc7oXw/0Xw/kx2/2mXn97c4dsfTGB37V0Y+X8KTsBilLbq+2o4alh48lKKivI/AswzTHZtVdbHVZTk+7Db3FHPvSUZNdJ5eoUUUUAxK9O/Z9/5He5/68H/9DSvMa9O/Z9/5He5/68H/APQ0ry8z/wB0qeh9zwN/yUWE/wAX6H0RRRRX5Wf30fj4j8U/earRscU7diviqnxs29ScPimlqi8ym7uazsO7J9/vTS9RbqB8zYrqofFccbt6Eu+nxN86n3pVtwoGTmnyfLG2AAMdq7HLojrhQkvfb2JHvFXpzTY5jK3zdKohuOKlt3+cCly2QlWlKSTZYeDuh/A1AzFTg8GrW6oZG3Oc8is0rnbN8quR7/el3UmxWPem+S2MgjrRy2JjLm0H76N9QMxU4NJvNIq5Y3ijdUG40bjQMsBhmpN9VA3TPep1yQvucZ/HFNK+iIlJRV2SF/epIX6jv6d67bwj8J5fEEP2u6v1gts/chUs7DvycAcfWvVNC8H6R4fCNZ2arLg/vn+Z+p7/AI9q+ry/h3E4y021GP3n45xN4n5VkcnQpRlUqLolZfezyPQ/hvrWtKkhiFlA3/LS4O09+dvXtXomi/CnRdNw1wj6hMVG43H3c+oA6fiTXZ7qTpX6Bg+H8HhLSceaXd/5H80594lZ7nTcIVPY0/5Y6fe92NhhSCJI4lWNEGFVQAB9B2p/J5pKK+jjFRVkflUpSqSc5u7fcKKKKokKKKKACiiigAooooBiV6d+z7/yO9z/ANeD/wDoaV5jXp37Pv8AyO9z/wBeD/8AoaV5eZ/7pU9D7ngb/kosJ/i/Q+iKKKK/Kz++j//Z)

וכאן תמונה עם הצללה רכה:

A picture containing text

Description automatically generated

A picture containing colorful

Description automatically generated

זאת התמונה הזאת- שכבר ראינו בה יש כמובן עושר של צורות אך רק מקור אור אחד

ובתמונה הסופית יותר:

![A picture containing text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SWKRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA3OjExIDA0OjIwOjI4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjowNzoxMSAwNDoxODoyMAAyMDIyOjA3OjExIDA0OjE4OjIwAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAE94AAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAgAEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A3PtHqKd56+4r31UXU/JZYKS2F81D/FUqo7ruVSV9QKbqRW5msJWk7Rjf0EwR2NJVJp7GMoSi7SVgopkhRQIKKACigYUUCCigYUUAFFABRQAUUAFFABRQIKKAKVFch9CFdRon/INX/eNceOf7s+j4YV8a/wDC/wBC8Y0YYZFP1FRtaW7HJhX8q86NepDZn2NfKsHX+OmiFtLtWHClfoap32nR29rJMjN8o6H612UcfU5lGXU+dzHhTBKjOrTumk39xjeeO4pwnX3r11UR+cywU1tqOEiHvTgQxG05NWpRMHQqJ2sLg9xiimmmiJQlF2krCUUyQooAKKACigAooAKKACigAooEFFLzHZ9ClRXKfQBXUaJ/yDV/3jXHjv4fzPo+F/8AfX/hf6GjRXkn6EFUtV/5Bk/0H8xV0vjj6nJjv91q/wCF/kcnRXvn5KFWLH/kIW//AF0X+dRU+BnRhP8AeIeq/M65oo2GCin8Kjazt2OTEteNHEVI7M/S6+UYKv8AHTRC2l2zDAVh7g1n6lYpZ2/nIxPzAYNduHx1SU1GR8vm3CuEp4edaldOKuZfnjuDS+cnvXqqoj4CWCmtncd5if3qnW2mZQyxOQeQQKcqsI7sVLAYis+WnG7JRp91j/VGnLplywzsx9TWDxtFdT1KXDOY1HbkHDSrnPRR+NP/ALHn/vJ+dZSzGmtjupcH42SvLQpXsRspVjbDErniqpuPRa6IV1ON0eTicqlh6zpSlqhPtB/u0nnt6Cn7RmawUeohmf2qW2dnuYlblSwyKiVRqLOihg6bqRT7o6j7Dbf88Vp32WADHlJx7V4csTVf2j9Tp5Fl8HdUl9xxlFe2fmIV1Gif8g1f941x47+H8z6Phf8A31/4X+ho0V5B+hBVLVf+QZP9B/MVpS/iR9Tkx/8AutX/AAv8jk6K98/JQqxYf8hC3/66L/OoqfA/Q6MJ/vEPVfmdjRXz5+uhWZrv/IO/4GK3w/8AFiebnH+41fRnM0V7lz8sCuxsv+PGD/cH8q4Mf8CPq+FLe3qen6liivMPuQooGc5r/wDx+p/uf1rJr3MN/Cifluc/79V9QorY8wKntP8Aj8h/3xUz+Fm2H/ix9UdlRXzx+vnDUV9GfjQV1Gif8g1f941x47+H8z6Phf8A31/4X+ho0V5B+hBVLVf+QZP9B/MVpS/iR9Tkx/8AutX/AAv8jk6K98/JQqxYf8hC3/66L/OoqfA/Q6MJ/vEPVfmdjRXz5+uhWZrv/IO/4GK2w/8AFiebnH+41fRnM0V7p+WBXY2X/HjB/uD+VcGP+BH1fCf8ep6fqWKK8s+6CigDnPEH/H6n+5/U1k17uG/hRPy3Of8Af6vqFFbHmBU9p/x+Q/74qZ/CzbD/AMWPqjsqK+eP184aivoz8aCuo0T/AJBq/wC8a48d/D+Z9Hwv/vr/AML/AENGivIP0IKpar/yDJ/oP5itKX8SPqcmP/3Wr/hf5HJ0V75+ShViw/5CFv8A9dF/nUVPgfodGE/3iHqvzOxor58/XQrM13/kHf8AAxW2H/ixPNzj/cavozmaK90/LArsbL/jxg/3B/KuDH/Aj6zhP+PU9P1LFFeWfchRQBzmv/8AH6n+5/U1k17uG/hRPy3Of9/q+oUVseYFT2n/AB+Q/wC+Kmfws2w/8WPqjsqK+eP184aivoz8aCuo0T/kGr/vGuPHfw/mfR8L/wC+v/C/0NGivIP0IKpar/yDJ/oP5itKX8SPqcmP/wB1q/4X+RydFe+fkoVYsP8AkIW//XRf51FT4H6HRhP94h6r8zsaK+fP10KzNd/5B3/AxW2H/ixPNzj/AHGr6M5mivdPywK7Gy/48YP9wfyrgx/wI+s4T/j1PT9SxRXln3IUUAc54g/4/U/3P6msmvdw38KJ+W5z/v8AV9QorY8wKntP+PyH/fFTP4WbYf8Aix9UdlRXzx+vnHtYXSNgwPn6UxrS4UZaFwPpXvKtB9T8pnlmLhvB6DPJl/55t+VdLopxpygnHzGubGSUqeh7HDdKdPGtzVvdf6GhnPSlryz726CqWq/8gyf6D+Yq6V/aR9UcuP8A91qf4X+RydFe+fkoVYsP+Qhb/wDXRf51FT4GdGE/3in6r8zsaK+fP10KzNd/5B3/AAMVth/4sfU83N/9xq+jOZor3T8sCuxsv+PGD/cH8q4Mf8CPrOE/49T0/UsUV5Z9yFFAHOa//wAfqf7n9aya9zDfwon5bnP+/wBX1CitzzAqez/4/If98VMvhZrh/wCLH1R2VFfPn7AFFAmkxMD0rmdZZk1FgpKjaOAcV2YLWpr2Pm+JVyYNOOmq2+ZTW6uEGFmkA9A1PW/u0ORcSfic16Lo03uj42nmWKp25ZvQf/al7/z8N+Qq1bX89/OlrOwMUnDYGD61lPD04pyitj0MNm+LrVFRqSupNJ+j0L7aDascqXUegNRt4fgK/LK4PvzXHHGzR9DU4Yw0r8raG/8ACPJ/z3P5VGNHayP2oyhhD8+0DrjmtFjHP3bbnHPhuOHarRlfl1+7UnTX4CMvG6n0HNPXXbQnBDr7kVnLBVOh20+J8LJJSTTH/wBtWX/PQ/8AfJqHUZ49QtBDasJJNwbaOuKUKE6c1KWyKxeaYfGYedCk/easl3MV7G6RsNA+fpTGtp0GWicD3WvSVam+p8VPLsVDeDGeW/8Acb8q66zZVsoQWAOwdTXLjXzRSR9BwzF0a05VNFb9SfzE/vr+dHmJ/fX8687kl2PsfrVH+ZEZu7cHBmjyP9qj7Xbf894/++qr2M+xj/aOFX20Ymro11do1upkXbjK8jNUv7MvP+fd/wAq9OlVjCmoyep8NmGAxGJxVSrSjeLejD+zLz/ng/5U5NKvWbHkke54rT6zTXU5Y5LjG7chJ/Yt7/zzX/voU6LS7q3lWaRAEQ7mO4dBUPE05Kx008ixdOanJaI02120U4G9vcLTf7etf7sn5VxLBVHqfSS4mwUXbU1aK4z6MK5fW/8AkJN/uiu3A/xPkfN8Uf7kv8S/UzqK9Y/Pgq7pX/ITg+p/kazq/BL0OrAf71S/xL80dZRXgH62FV7/AP5B9x/1zb+VXT+Nepz4v/d6no/yOOor6A/IgrT0H/kIn/cNY4j+FI9HKP8AfqXqjpqTr1rw7tH6k4p7jDJGDgkVyV45N5NycBzjn3r08JRlFty2PiOIMfh6sIww8tU9bEGT6mjJ9a7uVHy3tandiUUE8zOj0D/jyf8A66f0rWrxMT/FZ+o5N/uNN+QUVgemFQ3n/HnN/uGrh8SMcR/Cl6M4yivoD8gO5or5w/ZQrl9b/wCQk3+6K7cD/E+R83xR/uS/xL9TOor1j8+Crulf8hOD6n+RrOr8EvQ6sB/vVL/EvzR1lFeAfrYVXv8A/jwuP+ubfyq6fxo58X/u8/R/kcdRX0B+RbbhWnoX/IR/4AaxxH8KR6OUf79S9UdNVHUdR+wCM+Xv3574xXhn6m9jMGq74ZpvKxsI43dc1kPN5szNjG45xXRLOHGvChy721Pg8TwwqMauJ577u34iUV7R8uFFAHR6B/x5P/v/ANBWtXh4j+LI/Usm/wBwpegUVgemFQ3n/HnN/uGrh8SMcR/Cl6M4yivoD8gO5or5w/ZQrl9b/wCQk3+6K7cD/E+R83xR/uS/xL9TOor1j8+Crulf8hOD6n+RrOr8EvQ6sB/vVL/EvzR1lFeAfrYVQ1iYQ6ZNl9jMNqnGck9B+NBM1eLRxkr3SozRhZHziQDouemKnRtyA/nXoYCq5Sakz4biHCRpwhOCsru/zHVp6HxfFjwoQ5NduI/hs8bKdMbTfZnSE5i3JzxxVGa3F3tWdNwB4PpXHhqMJU5Oe59JnmZ4mji6UKD912v9/wDkc+bO7XeixPsY8jHWmTWNwszbIGC544rw8dh6llUprVNHu1MVQn7jkrMabadQN0bD8Kjr6mg26cb72R+aYmHLVlZaXdgorUwOj0D/AI8n/wB/+grWrw8R/FkfqWTf7hS9AorA9MKhvP8Ajzm/3DVw+JGOI/hS9GcZRX0B+QHc0V84fsoVy+t/8hJv90V24H+J8j5vij/cl/iX6mdRXrH58FXdK/5CcH1P8jWdX4Jeh1YD/eqX+JfmjrKK8A/WwrJ1+e2jsP8ASJMKsisUDY3gHJX8QD+OKai5PlXUzqSUYNs47UtVtLjU5W05XFs+AiYPy8c/rU1nGyQEuTudtxB7f5xXXgaco1by7HynENVfVElrdosVqaId1y8J+66ZP4V6GI/hvyPm8o/3yEX9rT7zo1QIgRScCoLp2iVSp6tivMpVZXSPusdl9H2UqltUiJJXaVFJ4JxWPc6ncR3MsaldqsQOK9CCvUcfI+QxDUMIqq3crfgQf2lOWUnbwc9Kp10Rik7o8mrXdSKi+n6hRVGB0egf8eT/AO//AEFa1eHiP4sj9Syb/cKXoFFYHphUN5/x5zf7hq4fEjHEfwpejOMor6A/IDuaK+cP2UK5fW/+Qk3+6K7cD/E+R83xR/uS/wAS/UzqK9Y/Pgq7pX/ITg+p/kazq/BL0OrAf71S/wAS/NHWUV4J+tmTbX9ve6ldql2B9lk8tkPHI69ffNYur6e0160iXMc8TOXMYIyP8a58Xio4Wt7KTtJW/wAzyKmYYaLlTnLUz7y08m3WW2gAuAwG0DHBpLNbna32iJ1YnOWrXCZhTVVOUtzw85xWGrYRxg9dyxWnoX/IQ/4Aa9/EO9KTPnso/wB+peqOmqpff6tP96vHpfGj9Ix/+7T9CCL/AF8f+9/Sufvf+P6f/fNerT/iv0PgsX/uEf8AH+hBRXSeGFFAHR6B/wAeT/7/APQVrV4eI/iyP1LJv9wpegUVgemFQ3n/AB5zf7hqofEjHEfwpejOMor6E/IDuaK+dP2UK5fW/wDkJN/uiuzA/wAT5HzfFH+5L/Ev1M6ivWPz4Ku6V/yE4Pqf5Gs6vwS9DqwP+9Uv8S/NHWVwvjjWZI7iKyt7praSP52ZX27gRXj4avChVjUqR5kuh+uwoe3vDm5fM5HSfEcOn3lwsskkskzjdJ6n61tHxRDFcLM8DrCVJ8wkY5rz86h9dxbrQVr/AOR8zW4bWJqSrRrJK9tvxGHxhaXM2IopHCsCxQg7QOcn24qVfFlteXKQW8TSSEHhTnivLp5ZU5o2OOtwrGFJuVdaeRp1p6F/yEP+AGvua6/cv0PnMpVsfSX946aqeoHESHBOG7V49L40fpGP/wB2n6EMPM0Rx1P9K5+9/wCP6f8A3zXq0/4r9D4HGf7hH/G/yIKK6jwwooA6PQP+PJ/9/wDoK1q8PEfxWfqWTf7hS9AorE9MKgu/+POb/cNOPxIxxH8KXozjaK+hPyA0/tdx/wA9n/Oj7Xcf89n/ADq/q1L+U4/7bzD/AJ/S+8Ptdx/z2f8AOoZD5r7pDub1NVGhTi7pGNbM8ZXjy1aja9RuxP7oo2L/AHRWnLHscvtqncNif3RTk/duHT5WHQik4RatYqOJqxkpRlqib7Xcf89n/OqN3Y2l/N5t3bxzSY27nXJxWaw1JfZR2SznHyVnVf3lddC0pHZhYQZIAPy8VPNp9lPB5DWsQhBBCBcDjpUvCUr3sbrP8cqfs1P/ADI00jTo1dUs4VVxhgF6ilh0rT7aUSQWcMTgYBVaccLTi00iamd4ypCUJS0Za2J/dFPjYxNujO1umRWrpxkrNHn08VWpyU4yaaJftdx/z2f86a1xM/3pGOPU1msPSTvynXLOMfJOLquz8w8+UHIkbI6c1EwDMWYAknJNaezinexzSxleUeRzdhNi/wB0UbF/uinyrsZe2qdw2L/dFGxf7oo5V2D21TuSxyyQrtjcqCc4Bp/2u4/57P8AnWbw9Ju7idtPN8dTioQqtJeYfa7j/ns/50fa7j/ns/51P1al/KX/AG3mH/P6X3h9ruP+ez/nSNdTspVpWIPUZprDUl9kTzrMGrOrL7yDYn90UbF/uiteVHB7ap3P/9n/4THkaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLwA8P3hwYWNrZXQgYmVnaW49J++7vycgaWQ9J1c1TTBNcENlaGlIenJlU3pOVGN6a2M5ZCc/Pg0KPHg6eG1wbWV0YSB4bWxuczp4PSJhZG9iZTpuczptZXRhLyI+PHJkZjpSREYgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdG9yVG9vbD5XaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0PC94bXA6Q3JlYXRvclRvb2w+PHhtcDpDcmVhdGVEYXRlPjIwMjItMDctMTFUMDQ6MTg6MjA8L3htcDpDcmVhdGVEYXRlPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCACcATsDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD0kav0zFx3w1Srq0R4KsorJor9RWIqLqfwjPJ8JLaNjaTUIWP38fUVIt1EwyJFx9cVg0Y7YFafWpLdHK8hoS+GbOkZSuNwK55GeM0ley6CA+gaerAENax5zznKDIps3h3S542RtPtgGxnZEqn65AzXyy4qhGTjUpPR7pn7rPwDxdahCvhMbF80U7Si1ur7ps8cxRXqtx4H0eVABbmH3jciqVx8ONOkYGKWeEd+Qf6V3U+J8DL4rr+vI+XxXgbxRh/4Tp1PSVvzSPNyNtGK7uT4ZYkJi1DZH/CHjyR+INc54m8M3Hhi1W6uJYpIXm8pfLJ3c5IJGPRfWvToZzgsTJQp1NX02Phc08NuKMnoyxGLwjVOO7Ti1+DMejFV11C3bgSc+4NSLPG3R1P417HPF9T85lh60Pig18iSl20gYN3z9DSgZ/xqzns1uIATmjrS888Ue3elroAmKMZpf4hmhsbvlp+gCUu2j73FBG2gBKKKKACiiigAooooAKKKKACiiigAooooAKKKBQAYoxTuvSk2nrQISil7daSjYAxRRj0NOx7UBc5qiiivnz9hCiiik9i435kfRGgDOg6b/wBe0X/oAq/VHw//AMgHTf8Ar2i/9AFX6/Hq38Sfqz/RvLf9yof4I/khMdfSgd+MUtFZXZ6Qh6Vw/wAX/wDkWbb/AK/F/wDQHrua4b4wf8i1bf8AX4v/AKA9enln++UvU+G44/5JvG/4H+aPIPrRRRX6ofwQLuI6MfzqQXEuMeYwHsaioppszlThLdI7H4e2UfiPWLm1vS0kYtmdSp2kNvUZ/Inr613E/wANbFo8Q3VxE/8Aefaw/IAVx/wf/wCRluf+vNv/AENK9fr4nNczxeFxbjSqNKyP6d4B4J4ezzh+NXH4SMpc0lfZ2v3Vjgrj4ZyKFEF8revmRkfyNUpvhzqUcgEUkEif3txWvSqK5KfEePhvJP1R9HivBjhHEX5KMqf+GT/W55LN4N1iMvus2kC85R1bP0Gc1j3ET2k3k3CNDLjPlyDa2Poa9xye9eL/ABU/5G6U9/KT+VfSZXn1fGVfZVIrbofiXHfhHlfDuA+u4KvPWSVpWe/ayRU2+nNJXPK7L91ipp63UyjAkavrlivI/nuWQTXw1E/kb1FY39pThcb8/UV1XgPTU8UahcwXDtCscXmAxcZO4DBqK2OpUKbqTvZHRl/CeY5pi4YLCpOc3Za2M6l216TD8N9NjkDNNcSqP4WYD+Qqx/wgOkf885P+/hrw5cTYKOyb+R+o0fA7imqrydOPrJ/omeW45xRivWoPBej26Ffsgk5zmRiT/Onnwlo//PhH+ZrnfFWFvpB/h/mezT8A8/lFOeIpp9ry/wAjyL8aBz0r2ePRtPjRVWxtwB0zGD+pFSppllG4dLOBWHIIjAOfyrD/AFrpt2VJ/een/wAQAx8Yc08bHTf3X/meJ/jTGlSP7zqv1IrFvf8Aj8n9fMbn8TUNfUxxnPFNRPwatw2qNaVOVW6Ta27fM3vtMX/PVP8AvoU1r6BTgyD8Oaw8Cj8Kf1qXRDjkFH7U2bZ1C3HST9DTP7Ug/wBo/hWPRWbxM2bRyLDLds6LSXTVtSt7OJtrzvsDMOB6Gu0Hw0ux/wAvkP8A3ya4XwP/AMjZpf8A12X+te+V8nnGcYvCVYxou2nY/oXw58N+H+IMBWrZhTcpRlZe81pbyOEh+GbGM+dfgPnpHGSP1NP/AOFYx/8AQQb/AL9D/Gu4or5qWf5jJ39p+C/yP2uHhHwdCKi8He3eU/8A5I+Z6KKK/Rz+MQooopPYuPxI+ifD/wDyAdN/69ov/QBV+qHh/wD5AOm/9e0X/oAq/X4/W/iS9Wf6N5b/ALlQ/wAMfyQUUUVgekFcN8YP+Ratv+vxf/QHrua4b4wf8i1bf9fi/wDoD16mWf77T9T4Xjj/AJJvG/4H+aPIKKKK/VD+CQooooA7n4P/APIy3P8A15t/6Glev15B8H/+Rluf+vNv/Q0r1+vzfPf98foj+0fCv/km4f45fmgooor58/XxOfWvF/ip/wAjdN/1yT+Ve014t8VP+Rum/wCuSfyr6TIbfW/kfivix/yIV/jRyFFFFfoh/HIV3/wf/wCQ1f8A/Xv/AOziuArv/g9/yGr7/r3/APZxXk5r/uVT0P0DgO/+suEX979D1ij9KWivy0/vAKT8KWigLCUtFFXH4kY1l+6l6M+bb3/j8n/66N/M1DU17/x+T/8AXRv5moa/YaXwR9D/ADixt/rVX/E/zCiiitDiCiiigZueB/8AkbNL/wCuy/1r3yvA/A//ACNml/8AXZf6175XwXEP8ePof1l4P/8AIrxH+P8AQKKKK+UP30+Z6KKK/aD/ADPCiiik9i4/Ej6J8P8A/IB03/r2i/8AQBV+qHh//kA6b/17Rf8AoAq/X4/W/iS9Wf6N5b/uVD/DH8kFFFFYHpBXDfGD/kWrb/r8X/0B67muG+MH/ItW3/X4v/oD16mWf77T9T4Xjj/km8b/AIH+aPIKKKK/VD+CQooooA7n4P8A/Iy3P/Xm3/oaV6/XkHwf/wCRluf+vNv/AENK9fr83z3/AHx+iP7R8K/+Sbh/jl+aCiiivnz9fCvFvip/yN03/XJP5V7TXi3xU/5G6b/rkn8q+kyH/e/kfivix/yIV/jRyFFFFfoh/HIV3/we/wCQ1ff9e/8A7OK4Cu/+D3/Iavv+vf8A9nFeVmv+5VD9A4D/AOSlwn+L9D1miiivyw/vAKKKKACiiiqj8SMa38KXoz5tvf8Aj8n/AOujfzNQ1Ne/8fk//XRv5moa/YqX8OPof5xY3/eqv+J/mFFFFaHEFFFFAzc8D/8AI2aX/wBdl/rXvleB+B/+Rs0v/rsv9a98r4LiH+PH0P6y8H/+RXiP8f6BRRRXyh++nzP+FHPpXpd18GzuX7NqQ29/Oj5/Q1B/wpu676lD/wB+z/jX6hHN8HL/AJefmfwvU8O+JacuX6tf0cf8zzuj0rt5PhHrHmMEltHTJ2sXYZGfTbUM3wp12KNnUW8zjH7uOXDH8wB+tbf2lhH/AMvEebLgziCm7vCT08rnrHh//kA6b/17Rf8AoAq/XI6f460LStPtrO6vvKubeJIZU8qQ7WVQGGQuDgg9K1LTxlod9CZI9UtVUNt/eyeWfybBr85rYWvzuXI7O/Q/szLc9yr6vSofWoc8YpNcyumkr6X6G1RWZ/wk+jdP7Wsf/AlP8avefF2lT/voVyOnOO8We/Tx+Frfw6sX80S1w3xg/wCRatv+vxf/AEB67XzEdsI6lyOADzXE/F5dvhm2z/z+Lyf9x69DLU1jKba6nyHGtSFThzG8kr+49vVHkNFFFfqSdz+DrMKKKMjIqhHc/B//AJGS5/682/8AQ0r18HNeQfCD/kZLn/r0b/0NK9er83z3/fG/JH9o+Ff/ACTcP8c/zFopOc0vP4V88frwV4t8VP8Akbpv+uSfyr2nivFvip/yN0v/AFyT+VfSZD/vfyPxbxY/5EK/xo5Ciiiv0Q/jkK7/AOD3/Iavv+vf/wBnFcBXf/B7/kNX3/Xv/wCzivKzX/cqh+gcB/8AJS4T/F+h6zRRRX5Yf3gFFFFABRRRVR+JGNb+FL0Z823v/H5P/wBdG/mahqa8/wCPyf8A66N/M1DX7FSvyR9D/OLG/wC9Vf8AFL8wooorQ4goopRmgPM2/A//ACNml/8AXZf6175mvA/A/wDyNml/9dl/rXvfNfBcQ/x4W7H9Z+D+mWYhf31+QtFFFfKaH76FJ+FLRQAUUUULciS91nzt4g/5Duo+v2mT/wBCNUP1NX/EH/Ie1L/r5l/9DNUK/YaP8OPoj/OTMdMbXt/NL82H4Uen5/59aKK2scCnKOzH288ts+6GR4m6bo2Kn8xXc/C+aTVPEFxFeO13ELVnEc53qDvTkA+xP51wddz8H/8AkZbn/rzb/wBDSvKzKMY4SpNLWx95wTVqVM/wdGcm4ueqb069D0m58KaPeSCSbTbd2Ax9wD+VQt4I0KRGU6XANwxlQQfwNblFfmyxVeO0395/a88kyyo3KeGg2/7q/wAjlf8AhWPh7n/RH/7/AD/41BdfCnQriNVRJ7bHOYpic/8AfWRXY0Vssfik7+0f3nmT4SyGpHleDh/4Ckeb6xo8Xwvt11XSnkuLiZxbMt4QyhSCxI2hTnKDv0JqtbfGSVYUFxpUckw6tFMUX8AQcfnWx8X/APkWbb/r8X/0B68gr6/L8NSzDDqriVzSvufzvxfnWO4QziWAySfsqSjF8qSau93Zp7npqfGZSyh9IKpnlluMkD2G0Zq7/wALg0v/AJ87z8k/xryWiu2WS4J/Zt82fM0vEziSmmpVlL1jH9Ej2K2+LWjTOwljurcdmdAc/kTXPeIPD954+1Q6tpCrJZyKsYaRtjbl4PBrz6vafhZ/yKEX/XV/5152Kw9PKIrE4ffbU+wyHOcX4hYj+xs4f7tLmvFWldfh+B5tJ4B16N2X+zpG2nHykEH9ajm8E67bxNI+mThV64AJ/IV73njrmk9f8K89cQ1+sV/XzPsZeEOVSu415r7v8j54/sHU/wDoG3n/AH4f/Cu2+FlnPpmsX73kElon2YndOhQYDAk8+1eos6oeWC4HciuA+MEiyaLYYZW/fnoe20/1/lXWswrZkvq0qdoy6ng1OEcBwXJ51SxPtKlD3uR2V+nmzsv7e0z/AKCNp/3/AF/xo/t7TP8AoJWf/f8AT/GvnaitP9XYfzs4P+IxYv8A6BY/ez6J/t/S/wDoJWf/AH/T/Gqc/jXQ7eZopNTgDr12ncPzHFeBUf561UeHaV/emzGp4xY+S/dYaK9W3/ke9f8ACeaB/wBBSH9f8KP+E80D/oJwn8/8K8Fo/wA9ar+wKEfe53p/XYwj4t5pWapyows9OvX5nT/8IDrl/dyFLIqjszLJIwCkdeuam/4Vbr//ADwh/wC/q17JZn/RYB/0zX+QqavJnnmIg3BJaaH6DQ8LMmxUFXrTnzT97dddex4r/wAKt1//AJ4Q/wDf1aP+FW6//wA+8P8A39Wva6Kn+3sV2X9fM6f+ITZD/NP71/keRR/B/VWRWa6tEYjlSzZH5LTv+FP6p/z+Wf5t/wDE163RWX9uYu97r7juj4XcOpJckn/28zym08A3nhC5j1m5nt5reyPmvHEWLMB6ZA/nWhdfGS2jZRbaZNMvczSiMj6YBrqvHH/Iq6r/ANcT/SvA69rA045tF1cWrtadj804qxmI8P60MvyCXs4VFzO9pO+3W56Z/wALn/6g/wD5Nf8A2FH/AAuf/qD/APk1/wDYV5nRXqf2Pgv5PxZ8F/xEfif/AKCv/JYf/In0xRRRX5if3IFFFFNbky+Fnzt4g/5D2pf9fMv/AKGaoVf8Qf8AIe1L/r5l/wDQzVCv2Gj/AA4+iP8AOPMv99r/AOKX5hRRRWx5oV3Pwf8A+Rluf+vNv/Q0rhq7n4P/APIy3P8A15t/6GleXmf+5VPQ+64H/wCSkwX+Nfkz1+iiivys/vYKKKKAOG+L3/ItW3/X4v8A6A9eQV6z8Yb61g0nT7a5n+zNNc71dkJUbUbIJA4PzDg9efQ14zDrVjLbvI1wIhs3oGX74yRx7ZFfa5VmWFw2G9nVnZp/mfyt4icM5rmmevE4SlzQcUr3XRa9S7RTY2E0aSL91hkcU6vsk7pNH89yjKEnGS1WgV7T8K/+RRi/66v/ADrxavafhZ/yKMOf+esn86+cz7/dV6n7N4T/API/f+BnX1R1bW7HQ7dJr64W2id9iswJy2CccD0Bq1JIIELs2FWuN+Ili/iTRYrexZTJFKJdsmV3AKwwD6898V8PSwlevFypwbR/UuYcQZVldWNDG4mEJvZSkk/uHXXi/SNU1KKG0vVlkkIjRQrDLE4A6VxnjzXrC9tYbaC5WSaKY71APGAQeorAtYpPCvii2+3xsr2c8ckkcZUnGQ3HOOlZl9bNcLd3y4EPn7QD975tzD26LUZlxTmWV4WEMJRjJLR3T2XzPyPMvCzJ80zCpm9bEVFKo+ayatr8gVgwyDkUtV7eYKoUg5qxX3eQZvTzrBQxEZJysuZLo+x/PHEuR1cgzCeGlFqF3yt9Y9wooor6Q+UCiiipl8LN6H8WHqvzPpKz/wCPOA/9M1/kKmqGz/484f8Armv8hU1fj1T45ep/o5gv91pf4Y/kgooorI7QooooAw/HH/Iq6r/1xP8ASvA6988cf8irqv8A1xP9K8Dr77h/+BL1P5M8X/8AkaYf/B+oUUUV9UfgR9MUUUV+Ln+mAUUUU1uTL4WfO3iD/kPal/18y/8AoZqhV/xB/wAh7Uv+vmX/ANDNUK/YaP8ADj6I/wA48y/32v8A4pfmFFFFbHmhXc/B/wD5GW5/682/9DSuGrufg/8A8jLc/wDXm3/oaV5eZ/7lU9D7rgf/AJKTBf41+TPX6KKK/Kz+9hN1BpGdVBJOAOSTwKiuLyG1tpJ5pVjhQbjJngCn5snm1seV/GBrzWvEGk+Go7ZNVt7iI3Q06C1kluTIhOG44Kbd2RjII5ODXlGtaTp+uW7R6luju7O4ZIltnZPKiwNqOCfvZyScDsB6n0n4ifHS2+H/AIw0rVtFga9v7e2eN9q/JPBI3zxk7dysDHEysMjBbI5rwi+8YX/jbxTf39lY+VNqd3LcyxI28kuxJy2B0LdcDPtRLB4mSVVR91q6elrHy+JxVGVaVNy1221udpompR3nnWyuztbhcs5ySDnGff5WzWpWR4d0d9It5RcLtvHb97z0x0H6/wA616/U8rc3g6bm7ux/FHFcaEM6xMcPDljzenqFeveE7p/D/huwhAS589TPuXtlun6V5DXtPwv/AHvhKEv85EjqN3PG7gfrXBnb5aMZP4b7H23hjF1cznSpPlquN1Ley6q3mdXfW6zWwTfjzFByO3esptHjVSTMfxGK1vLTuij8KyPFKqujyFVUHd2Ar5/AZrLDRVGlG13qfrnFnANHO67zTGVeaUFpptbpujm/EXw5t9e1i5v3v3iaYjKKgPRQvr7VnyfC+2XT5LU6hJteVZN/ljqoYY6/7RrX2jjgYxWT8Qsx+EdGZflYycleM/Ka7a+X4arKNGpC6qaHxdHPc0qYHE1vrDSoRTtZa62M1vhXawtkai5x/wBMx/jWfqXglbTzfKut/lwyTNuXsvOK5nzpP+ejfnSi4lXOJXG4FThj0PUV6mXZLh8opulgVypu73/U/LMy4kWd1o1cyi6jiml0/K3Ujooor6I+FCiiipl8LN6P8WPqj6Ss/wDjzh/65r/IVNUNn/x5w/8AXNf5Cpq/Hqn8SXqf6OYL/daX+GP5IKKKKyO0KKKKAMPxx/yKuq/9cT/SvA6988cf8irqv/XE/wBK8Dr77h/+BL1P5M8X/wDkaYf/AAfqFFFFfVH4EfTFFGaM1+Ln+mAUlLmimTL4WfO3iD/kPal/18y/+hmqFX/EH/Ie1L/r5l/9DNUK/YaP8OD8kf5x5l/vte/88vzYUUUVuedqFdz8H/8AkZLn/rzb/wBDSuGrufg//wAjJc/9ejD/AMfSvKzP/cqnofc8D/8AJSYL/GvyZ6/RSYOevHpXn/xp8eN4L8F3xsb5bTxBNCx0/wDdh9zqV3Y3KV6MOuOtfmNGmqtWNNyUb9Xol6s/veMZ1Hy0ouT7JXZY+J/jLTPDkWjadfapHpcurXYhjkkDbcLjcS2MKAzJ94jr9aua14f0+48H3+kjXbeE3IBF1NcxthsrjjcOPlHANfDPjb4jeMfG82kSeL9RjmtrOfMMkqQQKpYruAKhc/dB/A17tH8VtD1G1lLa1DNGwyrRqSCQcHlRz0xV8c4Wpw7h8M8trU60pJ8/K+ZLXS1rfiflXEGacRZfi7YDLp1G1s4Sul6IV/BN/outT3FxcQ60OYobizkWRduFJ3KrMV/H2qp4606S30e2u9LtTPqiShZI/JO9VJ27VI55OPyqXwv8VPC9wt/Ims27xGUbZFLMp+Ueg9fWmX3xQ8KyX0UP9vWsUr3CMiuxBba4JABHJwO1fk0M+zPn5J0b/f8A8E+U/t/il1Ev7JkovryT/wAu5jeE01hby4Oo6ZdQPNtzLJGwXgHjn6/WunZSrEEYNGr/ABO8LpCqnV4xhh8ux/T/AHajh1K21aJby0lE9tNykmCM9u/0r9W4H4ixuZVZYPEUuWKV09f1Pw3i7DZvWxP9oZlgp0FLR3jJJv59R9e0fC048Iw/9dZP514vXtPws+XwjEP+msn86+/z3/dVbuj6rwn/AOR+/wDBI66sfxV/yBZP94fyrY9RWP4r40WTPHIr4LD/AMWPqf1hm3+4Vv8ACzCXoPpWR8Rv+RO0X/rp/wCymtWKRJU3I6uoJUspyMg4I/Agj6isr4jf8ido3/XT/wBlNfdVP49D1P5Wwvu5Vmn/AF7X/pR5pRRRX05+IahRRRQAUUUVEvhZtQX72HqvzPpKz/484f8Armv8hU1QWf8Ax5w/9c1/kKmxX49V/iSXmf6N4L/daX+GP5IWijNGayO4KSlzSGmBieOP+RU1T/rif6V4HXvnjb/kU9U/64n+leB195w9/An6n8l+L/8AyNMP/gf5hRRRX1h+CHr3/C0B/wBA0/8Af/8A+xo/4WgP+gaf+/8A/wDY1wlFR/q/l3/Pv8X/AJmn/EXuM/8AoM/8kh/8id3/AMLQH/QNP/f/AP8AsaP+Fnj/AKBp/wC//wD9jXCUUf6v5f8A8+/xf+Yv+IvcZvT65/5JD/5Eq6hY/b766ud/l+dI0m3HTLE4z361X/sf/pt/47WlRXsrDUoqyR+b1M6x1acqk53bbey3Zm/2P/01/wDHaP7H/wCmv/jtaVFH1el2M/7Wxn8/4Izf7H/6bf8Ajtbvg++/4RTVJbsx/a98Ji252YyynOef7tVKKzq4OjWg4TV0zvwPEmZ5diYYzDVeWcHdOydn80d3/wALOH/QNP8A4Ef/AGNeVfHfQrr4xW2kLYapL4buNPeUl1RbhJlcLkFTtIIKAjnuevGNqivJ/wBXstejpX+b/wAz79eMHGsXeGOafdRgn96ifOfiD9lvXdWh3SeNE1KWNgY4rqx8pRkjcdysx6Z6g5xjjOa3fCf7Lp8P3kbHxpvs42aV7WTSyBK23bjIlYg9Pavb6KyqcN5dUgqfJZI7MH4zcX4Wu8TLE89R/aa1+9WPEvGH7ODatfWbaHrraNAIXF2yxsDNNvyrhVYAZUkHJONo654reHv2ZJNEs74TeIl1K+kBNvc3VmXNu+0gMu6Q4wefqK92opf6s5ba3syf+Iy8Y2s8Vre97L7u1vxPnux/ZX1K31HTbq+8am+EEkU8sCQSNGxBBZMs4yOMEkc+le32+gR2sKwwFIYl4VI4woH0FatFehhMpwmCTVKO58tn/iBn/EcovG1tI7Jbfjczf7H/AOm3/jtdt4V8YDwzpCWJtPtO12bzPN29fbaa5uiujEZfh8VDkqxujy8p4wzrJMR9awFblna17J6fNM7v/hZy9f7MP/f/AP8Asapat4+GqWTW4sfKyc7vNB/9lrkaK4I5Dl8Wmqf4v/M+tq+LXGFeEqdTGXTVvgh/8ib0fieOFcR2YQElsK+BknJPTuSaq+I9a/4SDRrKx8nyDbtu8zfu3cEdMD+dZdFdzy7DOUZcuq2PlI8ZZ3ClVoRr+7UVpe7HVfcZv9j/APTX/wAdo/sf/pr/AOO1pUV0/V6XY8L+1sZ/P+CM3+x/+mv/AI7R/Y//AE1/8drSoo+r0uwf2tjP5/wRm/2P/wBNf/HaT+x/+mv/AI6K06KPq1J6NDjnGNi1JT28kdvD8ShDHGv9nE7F2/6/HbHTbUn/AAs8f9A0/wDf/wD+xrhKK8d5Bl8nd0/xf+Z+k0/FzjKnBQjjNErL3If/ACJ3f/C0B/0DT/3/AP8A7Gj/AIWgP+gaf+//AP8AY1wlFL/V/Lv+ff4v/Mv/AIi9xn/0Gf8AkkP/AJE7v/haA/6Bp/7/AP8A9jR/wtAf9A0/9/8A/wCxrhKKP9X8u/59/i/8w/4i9xn/ANBn/kkP/kTrdc8eDWdIurH7EYvPTZ5nnZx05xtrgP7H/wCm3/jtaVFehh8uw2Fi40Y2T9T5LOONM8z6rGtmFfnlFWXuxWnySM3+x/8Apr/47R/Y/wD01/8AHa0qK6fq9LsfP/2tjP5/wR//2Q==)

![Square

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SKMRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA3OjExIDA0OjIyOjAxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjowNzoxMSAwNDoxODo0MgAyMDIyOjA3OjExIDA0OjE4OjQyAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAEN8AAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAcQDeAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A6Kivoz8ZCigAooAKKQgopjCigQUUAFFAwopAFFMAooAmtf8Aj7h/66L/ADrXutMjmy8f7uQ8+xrzsXXdGtFo+x4fyqlmGX1oy+JPR/IwQwboaWvQTurnyNSm6cnB9AopkBRSsIKKAF7ZpKNRhRTEFFABRSAKKAFpM0XHYKKL2GoyfQKKLofJJ9AooVmJpp6omtf+PuH/AK6L/Oum714+ZP8AeRP0fgm/1Sv6/ocPkhiQcVuPpjG2SaJt2UDMp+naul1/ZcqezPEjlH19VnD4o6+pnng4NFd58m007Mj89Pf8qTz09D+VR7RHV9TmHnp6H8qQzr2BpOohrByvqalnpxu7ZZxKE3E8bc9DVj+xT3nH/fH/ANeuCeYqMrcp9dhuDHXpRq+0tddg/sUf89//ABz/AOvR/Yo/5+P/ABz/AOvWf9p/3Tp/1FX/AD9/AlGjwYGZJc9yCP8ACs7VbdLHyfKZjvzncfTH+NOjjZTnyizLhbD4XCyqp6qxm+e/t+VHnv7flXfzs+R+pwEMznuBSebJ/e/SjnZawtPsTWrs95AjHKtIoIx710/2C1/54LXn4zEVISXKz6/hvKMJiKU3Vjez/QX7Ba/88VpwtLcDHkRf98CuF4qq92fUQyPAw1UA+y2//PCL/vgU9Yo0GFjRR6AYqXXm1qzenleFpy5ow1Oe17C3yADH7sdPqayua9jDtulFn51m9OMcdVSXUnsv+P8At/8Arqv8xXZVxY5+/E+m4W/3ar6/ocOep+tdna/8esP/AFzX+VVjPhic/Df8av6fqc1J/rG+pptezD4Ufm2I/iy9X+ZSormPbCigDqdG/wCQVF9W/ma0K8Gt/EZ+r5b/ALpT9AorI7grC8Rf8u3/AAL+ldOF/io8XP8A/cJmHRXtH5oFFAE9l/x/2/8A11X+Yrsq8vH/ABI+54T/AINT1X5BRXAfWBRQBzfiD/j/AE/65D+ZrKr3MP8Awon5bnP+/wBX1J7L/j/t/wDrqv8AMV2VceO+OJ9Hwv8A7tV9f0OHPU/Wuztf+PSH/cX+VXjfhiYcN/xa/p+pzUn+sb6mm17MPhR+a4j+LL1f5lKiuY9sKKAOp0b/AJBUX1b+ZrQrwa38Rn6vlv8AulP0CisjuCsLxF/y7f8AAv6V04X+Kjxs/wD9wmYdFe0fmYUUAT2X/H/b/wDXVf5iuyry8f8AEj7nhP8Ag1PVfkFFcB9YFFAHN+IP+P8AT/rkP5msqvcw/wDCifluc/7/AFfUnsv+P+3/AOuq/wAxXZVx4744n0fC/wDu1X1/Q4c9T9a7O1/49If9xf5VeN+GJhw3/Fr+n6nNSf6xvqabXsw+FH5riP4svV/mUqK5j2wooA6nRv8AkFRfVv5mtCvBrfxGfq+W/wC6U/QKKyO4KwvEX/Lt/wAC/pXThf4qPFz/AP3CZh0V7R+aBRQBPZf8f9v/ANdV/mK7KvLx/wASPueE/wCDU9V+QUVwH1gUUAc34g/4/wBP+uQ/mayq9zD/AMKJ+W5z/v8AV9Sey/4/7f8A66r/ADFdlXJjvjifR8Lf7tV9f0OHPU/Wuztf+PSH/cX+VVjPhic/Df8AFr+n6nNSf6xvqabXsw+FH5tiP4svV/mUqK5j2wooA6nRv+QXF9W/ma0K8Gt/EZ+r5b/ulP0QUVmdwVh+Iv8Al2/4F/SujC/xUeLn/wDuEzCor2j80CigCey/4/7f/rqv8xXZV5mP+JH3PCf8Cp6r8gorzz6wKKAOb8Qf8f6f9ch/M1lV7mH/AIUT8tzn/f6vqS2rrHdwu5wquCT7ZFddDd29wB5UyMT2zz+XWubGwk5Jo9vhrE0qdKpSk7N/5HGn7x+tdna/8ekP+4v8qMZ8MR8Ofxa/p+pzUn+sb6mm17MPhR+a4j+NL1f5lKiuW6Pe9nUeyCijmQezn2Z1OjHGlRfU/wAzV7cPUfnXiVY3qM/UcvqQjhKab1shdy+o/OjcvqPzrLkZ2e2p/wAyDcv94fnWLriNcNCsCmVk3bgg3Fc4xnHSt8MnGomzyc6kquDlTg7tmR9iu/8An1m/79mj7Fd/8+s3/fs16vtodz4P+zcT/KH2K7/59Zv+/ZpRY3ZOBbTf98Gj20O41lmJb+EntrK5huoZZIXVEdWZiOgBGa6D+0bP/n5j/OuHEr2sk4a2Pp8jnHL6c44n3W3oH9o2f/PzH+dH9o2f/PzH+dc3sKnY93+18J/MMbVrFW2m4HHopP8ASk/tiw/57/8Ajjf4VX1Wr2MXn2AT+MzdQhk1SdZ7JfNjVdhbO3nJPfHqKqf2Pf8A/PD/AMfX/Gu6nWp04KE3qj5XG5ZisbiJYmhG8JapiNpV7GjO8QVVBYncD059apDjkHH0reNWFSL5dTy6+Cr4KpBVlZs62XTLS4GXhUMR1XiqEetrbuYJITtjJQMp5wOnB/xrz6cZVrxb2Pr8ZVo5Xy1oR+NWZnsQzkjoTmkr3oqyR+S1pc1ST82dUiJGgWNVVR0CjApcfSvleZn75GjTSsooXHtRj2o5mV7OHZHK6z/yFJPov8hVCvbopOCbPy3MZyWLqJPqFFa2XY4eefdiqpZtqgknsBmt7QIpI/tAdGTO3G4Yz1rnxK/dOx6+RVb4+EZM2qK8e5+lcq7BRSuHLHsQXv8Ax4XH/XJv5VxtengPhdz4jivStTt2f5hRXfofKXfcKKBHSeH/APjwf/rqf5CtWvDxH8WR+pZN/uFL0IL3/jwuP+uTfyNcbXZgfgkfOcUf7zS9P1O4HQVxlz/x9zf9dG/nSwPxyNOKP92pf10Jx0FLXtrY/LZbs6yivkj+hAooA5XWf+QpL9F/kKoV71D+Gj8nzL/fKnqFFanEPim+zzJLt3bTnGa2tM1Y3F2sBhAL55DdOM/0ryMXmHLW+q23W59PkOUe0nDHOVrPY3KK47H3wUUAQXv/AB4XH/XJv5GuNr1MB8LPhuLP41P0f5hRXefJhRQB0nh//jwf/rqf5CtWvDxH8WR+pZN/uFL0IL3/AI8Lj/rk38jXG12YH4JHznFH+80vT9TuB0H0rjLn/j7m/wCujfzqcD8cjTij/dqP9dCcdBS17iPy2W7Osor5I/oQKKAOV1n/AJCkv0X+QqhXvUP4aPyfMv8AfKnqFXINNnuYBKmzaTjk81cnY5qdNzdkK+kXPrH/AN9VY06yltbjzJNvCkAqeh//AFZrxfqknjnXex9VQxsaWXfV4/F/wS9rMn2jTJYopHjkYfKwHGfQ+1Z2lHVtLWO2uGhnjXLud53BfYnv3x/+upnSaZ9DQx0ZxUl0OmVgyKw6EZFLWZ6sXdXIL3/jwuP+uTfyNcbXp4D4WfD8Wfxqfo/zCiu8+TCigDpPD/8Ax4P/ANdT/IVq14eI/iyP1LJv9wpehBe/8eFx/wBcm/ka42uzA/BI+c4o/wB5pen6ncDoPpXGXP8Ax9zf9dG/nU4H45GnFH+7Uv66E46Clr3Eflst2dZRXyaP6ECmRyJKu6Ngy9MiiwuZXscxrP8AyFJfov8AIVQr3aH8NH5RmX+91PUKUMw4DEfQ1pa+5xxm4u6F3v8A3j+dbVhzZRk8nnOfqazqRtG6O/BVJOqtTP8AEOuW8WmtZoshuW2jKD7uCOT68dv5da5qySV71ItQuGtoSfmcknPtx0+vQV4MnfW5+jxjHRWPUVYMoKkEEZBFLQdxBe/8eFx/1yb+Rrja9TAfCz4biz+NT9H+YUV3nyYUUAdJ4f8A+PB/+up/kK1a8PEfxZH6lk3+4UvQgvf+PC4/65N/I1xtdmB+CR85xR/vNL0/U7gdB9K4y5/4+5v+ujfzqcD8cjTij/dqP9dCcdBS17iPy2W7OsrKvtUltbpolWMgAH5s5/nXw+MrSo07xP3DNsXUwtBTpq7uVJPEckSAtBCc9xn/ABo8JahJqmnXd25JikvJDCpUApHxgHHfr6/WqyqU6uHqVKru9LfecWUY7EYub9rGyRV1r/kKS/QfyFUK+nofw0fEZl/vdT1CitTiCtvTiDZJ7Zz+dZ1dInZgV+9XyOf8VS2k1vbxgKJoywdtvOM8DPXHWufYvJEq7+AK+ek9T9Ktzano3hdpG8OWhlYsQCASc8BiB+lbFUd0dive/wDHhcf9cm/ka46vUwHws+H4s/jU/R/mFFd58mFFAHR+H/8Ajwk/66n+QrWrw8R/FkfqWTf7hS9CC9/48Lj/AK5N/I1xtdmB+CR85xR/vNL0/U7gdB9K4y5/4+5v+ujfzpYH45GnFH+7Uv66E46Clr20flst2av9st/zwH/fVcTqnhu51S/nuZNXlHmSFghiDBRnIHJ6DgV5MsqhJWbPv48dVIu6plQeDJgwI1hxg5GLdf8APeuy0eWPR9PjtYYAxABkcsf3j4ALY7Zx0HFKOUwh8LLnx/XnFxlTViK8Ju7lpj8u7HA9hioPs/8AtfpXowo8sUj5HE5m61WVVrcPs4/vfpR9nH979Kr2Rh9efYPs4/vfpVy3nNvEI9obBznNRKjdWN6GZulPmSMm70iO7mkmeVgztnbsGAPzpsGiWsUwaVpJox/Bnbn64/p+ded/Zd3ds+o/1zUYpKn+J0y6uY0VEt1VVGFAbpS/203/ADwH/fVX/Zi7h/rxL/n3+JHNqrTQSRGEDepXO7pkYrI+z/7X6V00MKqSaueLmnEEsfOMnG1kH2cf3v0o+zj+9+ldHsjyvrz7B9nH979KPs4/vfpR7IPrz7GjYXpsYGiCB8tuyTjsB/SrX9tN/wA8B/31XFUy9Sm5XPp8HxhLD0I0uS9lYjm1VpoJIjCBvUrnd0yMVkfZ/wDarWhg1STVzzsz4iljqkZuFuU2hrLAAeSP++qx5IvMld843MWx+NKhg1Tbdysz4jljqcYOFuUk6DFFdp8y3cKKBsKKHsIKXvTBiUUAHalNMQlApDFooEJ3o70mMD1opgFFABS96AYlKKlC6CUUDCimB//ZAP/hMeRodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIj48eG1wOkNyZWF0b3JUb29sPldpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQ8L3htcDpDcmVhdG9yVG9vbD48eG1wOkNyZWF0ZURhdGU+MjAyMi0wNy0xMVQwNDoxODo0MjwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMAAwICAwICAwMDAwQDAwQFCAUFBAQFCgcHBggMCgwMCwoLCw0OEhANDhEOCwsQFhARExQVFRUMDxcYFhQYEhQVFP/bAEMBAwQEBQQFCQUFCRQNCw0UFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFP/AABEIAHEA3gMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APW6KXbRj/OK/Z9T/MsSjFL+NJ170xhRjvS7flJByKABznrQAlFLRzS1EJRSigsPpT9RiYpdtJR/npQAYoxS8UcUCEopfcdaN2eppXRVnuIFLUUcetGR60adWCjJ9AKkcUUcY60BvelzLuWqc3sgI20Uo75pO340077EuLTs0X9B51zTs8j7RHkHoRuHFd9r3gW11LfNa/6JdE5I6xt3OR2JPp+Oa4LQcf25pwHX7RH3/wBsV7J/FXwPEGLq4XF0p0JW0/U/rXwf4fy3iDh/McPmVFTXMrX3Xubp7o8IjmWblTk9x3p+OlYBkaOZmVipz2+telXXgWaTSba9spPO3wrLJC/UEqCSp79ehxX0/wDaVKmoKs7OX3H4jLgjMcZLEzyqHtI0btpfElft1+RylFKylWIIIIODnrSV7B+cNOLs9yp/akHo3/fNNbVYeysfwFZNFeT9Zmff/wBiYVd/vNb+1of7r/kP8aa2rRgfKjE/gKy6KPrEylkuETvZ/eekeGvBp8RaPBqAuxbiQsPLMe7GGI9fatRfhi2Ru1EY9of/AK9aXwz/AORLsv8Afk/9Dauqr87xee4+nXlCNTRPsv8AI/sjIPCnhLG5Xh8TXwt5yim3zz/+SOG/4Vev/QRP/fgf/FUn/Cr1/wCgkf8AvwP/AIqu6ori/t/Mf+fn4L/I+i/4hFwZ/wBAX/k8/wD5I5KP4a6csah7m6L4wzKygE+wxxXI/EDRYfCf2D7HJK/2jzN/nEHG3b0wB/er1qvNPjP/AMwf/tt/7Trty3NMZWxUYzqNpny/HHAfDWW5DWr4XBxjONrPW5wB1aZuy/lSf2rP/s/lVOivv/az7n8k/wBnYT/n2i22p3DDhlX6Cm/2hcf89f8Ax0f4VWope0n3NFgcMv8Al2vuRseH7iS613TYJW3xS3MSOpAwQXAPavaf+ET0j/oHxCvEfDH/ACMuk/8AX5D/AOhrX0LXxWfYqvSqwUJtadz+nPCXIsrxmBxUsThoTamrXin080ZH/CJ6R/z4RfrU6+H9MVQo0+14GOYVNaFFfKPGYiW9R/ez9/p8OZNSd4YSmv8AtyP+RQ/sHTP+gdaf9+F/wqa30+1t1KxWsMS/3UQKP0qzRWbxFaSs5v7zqp5PltKXPTw8E+6iv8jx/wCLaiLxJbKgCD7IpIXgfffnAriNxPU13Hxg/wCRltv+vNf/AEN64av07LZN4Om32P4c42pQhxHjYxikud/kjT8Mf8jLpPP/AC9xf+hrX0L3r568Mf8AIy6T/wBfkP8A6GtfQtfNcQN+3pen6n7b4Sf8inHf4v8A20+aZP8AWN9T/OvojQf+QLpx6/6PH/6AK+d5P9Y31P8AOvojQf8AkC6f/wBe8f8A6CK3zz+HR9TyfC//AH3Mv8L/ADZ47d/8fU3f52/nUVS3f/H1N/vt/Ooq/SqP8KPoj+JMx/32v/il+bOcooorxT9QCiiigR7d8M/+RLsv9+T/ANDauqrlfhn/AMiXZf78n/obV1VfkuO/3mfqf6D8K/8AIkwn+BBRRRXCfUiV5p8Z/wDmD/8Abb/2nXpdeafGf/mD/wDbb/2nXs5R/vkD8z8Rv+SbxHy/M8zooor9PP4bCiiigDT8Mf8AIy6T/wBfkP8A6GtfQtfPXhj/AJGXSf8Ar8h/9DWvoWvhOIv4sPT9T+q/Bz/cMX/jj/6SFFFFfJH9ChRRRQB5B8YP+Rltv+vNf/Q3rhq7n4wf8jLbf9ea/wDob1w1fqmWf7lT9D+CeOP+Skxv+N/kjT8Mf8jLpP8A1+Q/+hrX0LXz14X/AORl0j/r7h/9DWvoWvnOIP49L+up+0eEn/Ipx3+Jf+knzTJ/rG+p/nX0RoP/ACBdP/694/8A0EV87yf6xvqf519EaD/yBdP/AOveP/0EVvnn8Oj6/wCR5Xhf/vmZf4f1Z47d/wDH1N/vt/Ooqlu/+Pqb/fb+dRV+lUf4cfRH8R5j/vtf/FL82c5RR60V4l0up+qeym9ov7gooopcy7j9lU/lf3Ht3wz/AORMsh/tSf8AoZrqs1yvw1YL4LsySAN8mSTgffNdMJkx99c/WvyrGxcsTNpdT+++Ga1OnkuFUpJPkXUkopnnR/31/MUedH/fX8xXByy7H1H1il/MvvHV5p8Z/wDmD/8Abb/2nXpPnR/89F/MV518VLebWptOi0+J76W38zzo7ZTI0e4IV3Bc4zg4z6V7GVJxxUZS0SPzfxAksRw/Xo0XzSdrJatnl9Faf/CL6z/0Cb7/AMBn/wAKP+EX1n/oE33/AIDP/hX6P9Ypfzr7z+M/7JzD/nxL/wABZmUVp/8ACL6z/wBAm+/8Bn/wp0fhXWpGCjSb3J6ZgYfzFL6xR/mX3lLKMxbssPP/AMBf+Q3wx/yMuk/9fkP/AKGtfQteHaL4Z1XTdYsLu6sJ4La3uI5ZZHXARVYEk/QV6t/wmmhf9BS2/wC+6+NzxPE1IOj71lrbU/pDwuqRyfBYmGYv2TlJNc/u3Vt1e2ht0Vif8Jpof/QVt/8Avuj/AITTQv8AoK2//fdfN/Va/wDI/uP23+3Mr/6CYf8AgS/zNuiubl+Ifh6CUxtqSkjGdkTsOenIXFN/4WV4c/6CP/kCT/4mr+pYn/n2/uZzPibJE7PGU/8AwOP+Zw3xg/5GW2/681/9DeuGr0Lxhptz481KPUNCj+3WccIt2k3CPDgsxGHIPRl56c1h/wDCt/Ef/QO/8jx//FV9/gcRRo4WFKrNRklqm7M/kXirJ8xzPO8VjMDh51KU5XjKMW4taaprRmPoV1HZ63p9xMxWKG4jd2wThQwJP5V71pniHTdYVDZ3sM7MMiMNh/xU8j8RXjM/w/160t5p5rIRQwo0jsZkIAUZPAbPY/nXPKxjIZSVIOQV4I/+vUYzCUMytUhU1j218zr4d4gzTglSwWJwrUa7+0nF/wAt1fp8hZP9Yw9zX0RoP/IF0/8A694//QRWbf8AgfRdXjzPYRrIy48yEbCDzzxjPXv7Zrl7P4pRaPO2nXVg5itWa3E0L5bapIX5T34Gea8bE1ZZpGMKEdYPU/SMkwNPgOtXxOa1oqGJjaLV997PTTc5e7/4+pv99v51FT55BNNI6/dZiwz7mmV+p0k1Tin2R/BWPkp4ytKOzlL82e329rDZwrDbwxwwrkrHGoVRnrgDjPvUm32H5U6iv5/55Pqf69Rw9KKtGC+4TaPQUbR6Clopc0u5Xsqf8qPEPiZn/hMrwZx8sfc8DYvH865aup+Jn/I53v8AuR/+gLXLV+rYFJ4aDfZH8A8UVJxzvFJPTnYUUUV3cq7Hy3tJ/wAz+8fDE9xII4kaR26KgyT+Ar0/4RWNzZnVluLeW3MnlbfMQrnG/wBQPUfnXmun6kdIvre88vzvKbITdjPH0r0TwN8Qm1jXIdPexCNcbx5izZ24BboRycLjtXyOb5tgIOWXSqfvmrqNn+ex+u+HuT5zUzbD5nTpc2GTacnJad9L3/A9M/Gj8aTnHI/HtS/hivibs/szlj2Cjmiildj5Y9jL8T5/4RnVx/05zdz/AHDXz3X0J4n/AORa1f8A69Jv/QGr57r7rh3+FU9f0P5W8Yvdx+Et/I/zCiiivrT+fOZ9wooooJPX/g//AMi1c/8AX43/AKAldwOlcP8AB/8A5Fq5/wCvxv8A0BK7mvyvM/8Afanqf3twP/yTeC/wL82Zfib/AJFnVv8Ar0m/9AavnuvoXxP/AMi1q3/XnN/6A1fPVfScP/wKnr+h+LeLX/I2wP8Ah/8AbkfSsedqc44H8q+eNc/5Dmo/9fMn/oRr6Ij+6v0/pXzvrn/Ic1H/AK+ZP/QjWeQP9/V/rqdni1/yKsB8/wD0lGnH/q1+lOpsf+rX6U6v1OOyP4KqfG/U91FFJ24o579a/njyP9ixaKTH4mobS8hvofNtpVnjyRuU55FNC5le1zxf4mf8jne/7kf/AKAtctXU/Ez/AJHO9/3I/wD0Ba5av1jAf7tD0R/n1xT/AMjzF/42FdBpPgfUda09by3MPlMSvzuQ3H4Vz9PSaRBhZGUdtpxXZJSfwnz9GVKMv3y0N66+HOq8fNbcf9ND/hWx4L8M3egaobm58s4iZUaNiSrEjkcem4fjXF/apv8Anq//AH0f8a9F8JfvPD9qWO5jvyW5/javkKmQ4elj5ZrJXm18vuP1TKOKMRUwCyKh7tN9eurXW5pfEy8/tjwffWdlczWV5MMQyKuFLDnaxByAeeRyDgjNcl8P28aeA4rXSdSksdVs4w9xO4mcyiMnkozDkg5YAgA5xwfmqj8Y/ippdh4Sn0OCK4fWJBGm63UDySsiZY5IDfICQO5wMrww8c8L297ceIbe08TanJounMR5s7M7k8j938hO0nn5jgDr1wK+QrTpc3Mo7+Z/T2FhjoKMalZNpLXlt+u59rW8yzwRyp9x1DLn0IzUlMilSaNXidZI2AZWU5BB6EEU+sT7ON+Vcz1MvxP/AMi1q/8A16Tf+gNXz3X0J4n/AORa1f8A69Jv/QGr57r7nh3+FP1/Q/lbxj/3/Cf4JfmFFFFfXH89BRRRQB6/8H/+Rauf+vxv/QErua4b4P8A/ItXP/X43/oCV3NfleZ/77U9T+9uB/8Akm8F/gX5szPE/wDyLWrf9ec3/oDV89V9C+J/+Ra1b/rzm/8AQGr56r6Ph/8AgVP66H4t4tf8jbA/4f8A25H0tH91fp/SvnfXP+Q5qP8A18yf+hGvoiP7q/T+lfO+uf8AIc1H/r5k/wDQjWfD/wDHq/11Ozxa/wCRVgP6+yjTj/1a/SnU2P8A1a/SnV+qR2R/BVT436nuvauI8U+O7zQdYltIYrd41VSPMDZ5H1qD/hZkvT7Ant+9P+FfN/jz4Jat488S6lq1142uoxd3LTJbvZJKIV37kjBY8qowo+nQV+E5hwrnGJpKGHfI/VH+g2beKXCuZUFRw+aSoO9+aNKUn6Wdj3m++NV1p9vG0un2Lg8bk8wnPP8Atj0pP2d/GV14+8K67rUzs1lc67dtYRPGkbwWvy7EYKMEg55ye3Jr5pX9mW/SRXXxzOhU7l26ZDkHkdc+5r6H+HF/a/DfwvbaRY2Cysqo91cNKwNzPsVXl2nIUtsB2r8o7U8l4WzXLMLWoYhe0lUa95yvazvZJ3tf1Rw5T4jcKZbKVTEZzUxD6KVFxWu+zf5FX4nf8jne54+WPr/uLXLc103iRj4g1ea+f9wZAvyLz0UD+lZn9jj/AJ6f+O1+qYTCVadGEJLVI/mfPuIsuxuaYjE0J3hOTadnsZlFaf8AY6/89f8Ax2j+x1/56/8Ajtdf1ep1R4P9s4P+b8GZlekeDXDeH7cDqpYH67ia4r+xx/z0/wDHa6HR9WfRrJLYRiUKS24kjrXLiMLWnBxitT3Mn4gy7DYlVKs7LTo+jPP/ANoDUNG1LStLtlWNdQtXmWeYRAOV35VN3UjljjIGee9eTzSTXlnDH5w8tUA+o5AGPTHrXrniD4d23iLULu+mvZElnlLiEQgooJyec8n8O9R6T8LdHsb9JLyW61K0TkW24Qhzn+IjJxjIwCD/ALXavzOWQZnObtT/ABR/Vf8AxFDhHkU6mL10+zL/ACPZfgRcXM/wn0FruRpZFSRAzuW+RZXCjJPGFAwOmAK78AivPrf4jNaQRww6ZFFFEgSNEkICgDAA46U//hZsv/QOT/v4f8K6f9Xsx/k/FHqx8YeDoq31p/8AgE/8jqvE/wDyLerf9ekw/wDHDXz3XqOpfECTUtOurQ2SIJ4ni3eYSV3AjOMe9cD/AGOP+en/AI7X1eTZZicHTnGtG133R+C+JPHGR8QYvD1cvrcyhFp+61q35pGZRWn/AGOv/PX/AMdo/sdf+ev/AI7X0X1ep2Pxz+2MH/N+DMyitP8Asdf+ev8A47R/Y6/89f8Ax2j6vU7D/tjB/wA34M9M+EH/ACLNz/19t/6Aldz6V5N4T8Tv4V06S0S3W4DymXezlcZVRjj/AHa2/wDhZ0vfT0z/ANdT/hXwOOyPHVsVOpCGjfdH9a8K+KnCuW5LhcHicQ1OEbP3Zb/cdV4n/wCRb1b/AK9Jh/44a+e+teo6l8QJNT027tDZKgnheIt5hJXcCM4x71wP9jg9Zcj3Fe1lGV4rC0pxqxtfzXY/MvELjrIc+zDC18BW5owVn7sl9q/VH0FH9xf92vnnXP8AkOaj/wBfMn/oRr0lfiZKqqPsCHAx/rP/AK1cBfWIvL2e4LbDLI0hXGcZOcVGUZXisLVqTqxsn5rudPiFx7kGe4DCUMBWcpQ392S6W6osR/6tfpTqRV2qB6UtferY/kuT5pNoD2pfSiil1HLZCUo70UU5fCZiU5vvUUVXUJDaKKKQB/DTm7UUVYmJ60L1ooqS+gtFFFIzE/ipF+8KKKUixW+8aSiimJbBRRRQAU8/e/CiijqEtxlKvf6UUVnHcX2RKKKKHsMKKKKtbAf/2Q==)

![A picture containing text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SRKRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA3OjExIDA0OjI0OjA1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1NAAAkpIAAgAAAAM1NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjowNzoxMSAwNDoxODozMwAyMDIyOjA3OjExIDA0OjE4OjMzAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAEp4AAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAbwEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A6KmyEiMkV9E9j8bgk5pMgE7+xpwuD3WsVUaPRlgov4XYcJ17g1LBm4lEcYJc5wKr2sUrsyjl9Wc1Cnq3oiZ7S4QkNC/HUgZFRlHU8qw+oohWpz+Fir5di8O7VabQ2itDiaa3CimAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFMl/wBU1KWxdL416lWiuU90Kv6N/wAhSL6N/I1lX/hy9Dtyz/fKX+JfmdVSYB7V4SbWx+rShGStJXI2t4XxuiQ49VrE1uNLZ4fJUJuznH4V3YOtU9qo3Pl+I8swn1KVRQSatqlbqjLE7d8GlFx6rXsKoz82lgov4WSwv50qRgYZ2CjNXjpl0P8Alnn6MKieKpwlaR0YfIcXiabqUFzJO3mQtaXCDLQv1x0qMoy/eUj6itY1oS+FnDXy/FUHarBobRWpxhRQAUUgCimAUUh2YmR6ilX53CryxOAB3pOSSuy4UpzajFassCyuc48l+fanf2dd/wDPL9RWDxdFfaPVp8P5lU2pP8B/9l3X9wfnTxpFyRnMY9iT/hWMsworzPSo8HZhUdnZepn0yX/VNXdLY+XpfGvUq0VynuhV/Rv+QpF9G/kayrfw5eh25Z/vtL/EvzOqorwT9YCsHxF9+3+jf0rqwf8AGR4fEX/Iun8vzRiUV7J+bFiw/wCQhb/9dF/nXY15eP8AjXofd8Kf7vP/ABfoFNYAg5Arii2nofTVIRlFqSujiy7Bjhj1o81/WvooykkfjVXD05Sd0TQSNJcRxnozAVvjR4AeXcj0yK5sTjJ0mkj2sj4cw2OjKdRvRoeNKtgejH8ad/Zlr/zz/U1xSx9Z9T6enwjlsNHFv5jvsFr/AM8Vrn9VAi1GRI/lUAYA+grbCYipUnaTPP4gyjB4XCqVKCTbX6lEknqTSV6F2fIKEVsgq1p3/IRt/wDfFZ1PgZ1YP/eIeq/M6+ivnz9dCigDk6ZL/qmr62Wx/PtL416lWiuU90Kv6N/yFIvo38jWVb+HL0O3LP8AfaX+JfmdVRXgn6wFYPiL79v9G/pXVg/4yPD4i/5F0/l+aMSivZPzYsWH/IQt/wDrov8AOuxry8f8a9D7vhT/AHefr+gUh+6fpXCtz6iXws4hvvn60lfQrY/Hp/Eya0/4/YP+ug/nXZ15uP8Aiifa8J/wqnqgorzz64K5XWf+QpL9B/IV24H+I/Q+Z4p/3SP+L9GUKK9Y+ACrWnf8hG3/AN8VFT4GdGD/AN4p+q/M6+ivAP10KKQHJ0yX/VNX1stj+faXxr1KtFcp7oVf0b/kKRfRv5Gsq38OXoduWf77S/xL8zqqK8E/WArB8Rfft/o39K6sH/GR4fEX/Iun8vzRiUV7J+bFiw/5CFv/ANdF/nXY15eP+Neh93wp/u8/X9ApD90/SuFbn1EvhZxDffP1pK+hWx+PT+Jk1p/x+wf9dB/Ouzrzcf8AFE+24T/hVPVBRXnn1oVyus/8hSX6D+QrtwP8R+h8zxT/ALpH/F+jKFFesfABVrTv+Qjb/wC+Kip8DOjB/wC8U/VfmdfRXz5+uhRQBydMl/1TV9bLY/n2l8aKtFcp7oVf0b/kKRfRv5Gsq38OXoduWf75S/xL8zqqK8E/WArB8Rfft/o39K6sH/GR4fEX/Iun8vzRiUV7J+bFiw/5CFv/ANdF/nXY15eP+Neh93wn/u9T1/QKQ/dP0rhW59RL4WcQ33z9aSvoVsfj0/iZNaf8fsH/AF0H867OvNx/xRPtuE/4VT1QUV559aFcrrP/ACFJfoP5Cu3A/wAR+h8zxT/ukf8AF+jKFFesfABVrTv+Qjb/AO+Kip8DOjB/7xT9V+Z19FfPn66FFAHJ1LbwC6nWFiVDdxX1VWXLBs/BMDSVXE06b6tL8S4fDy54uD/3zUbeHnz8twuPda8dY9dUfo9ThSX2Kn4Eb6Bcg/LJGw98in29jLpc63VwV8pM52nJ54qnio1I8i3ZhDIa2CqrEzacYNN+iNBNasmPMjL9VNSJqtk7bRcLn3BH865Hhakeh9FTz3Az+3b1JBe2pOBcRZP+0Kydc/ftAYf3gAbOznHT0q8NCUKqclZHLnOKo4rAzhQkpPTReqMby3/uN+VNr1k0z8/lCUfiRYsP+Qhb/wDXRf512NeZj/jXofccKf7vP1/RBSH7p+lcK3PqZfCziG++frSV9Ctj8en8TJrT/j9g/wCug/nXZ15uP+KJ9twn/CqeqCivPPrQrldZ/wCQpL9B/IV24H+I/Q+Z4p/3SP8Ai/RlCivWPgAq1p3/ACEbf/fFRU+BnRg/94p+q/M6+ivnz9dCigDk6t6b/wAf8X1P8jX1Nf8Ahy9GfhOV/wC/Uf8AEvzOhor5Y/dgrP1n/kFy/Vf5itaP8SPqcOZ/7nV/wv8AI5aivePygK3vDv3Lj6r/AFrmxn8Jnt8O/wDIwgvX8mbeB6U3y0/uL+VePzNH6K6NOW8UVLy2gjtZ5khjWRULBwoBB9c1zw1K8UYFw/Hqc16OFiqsXz6nx2fV6mBxEVhny3WtvUcurXyjHnn8QDUia1eg4Z1bPqorZ4Sn0R5lPP8AGppOV/U0m0K2cAh5FJ5PNMbw/Dj5Z3B9wK5FjZrRn0M+GMNNc0ZNXG/2Ktr/AKR5xbyvnxjrjmmHxC2eLcf99Voo/WtdrHJKp/YH7uPvc+v3B/wkLf8APuP++qa3iGbPywIB7kmmsDHqzOfFVRr3YCf8JBP/AM8Y/wBasQ2MWqKL2YsGfgqp444/pSnTWGXPHcvC4t53P6viFZLXQm/sKz9ZP++qT+wrP1k/76rH67UPS/1ZwXmTf2PY/wDPH/x41FcWFtaW8lxDHtkjXcpyTg0o4mpJqLe5dXJcHRpyqwjrFXXyMU6rek589vwpP7Tvf+fh69H6tS7HxzzvHt/xGI2o3jDm4kH0OKb9uu/+fmb/AL7NUqFNbIxnmeLm7yqMlq3pv/IQi+p/ka66/wDDl6M+eyv/AH6j/iX5nQ0V8sfu4Vn6z/yC5fqv8xWtH+JH1OHM/wDc6v8Ahf5HLUV7x+UBW94d+5cfVf61zYz+Cz2+Hf8AkYw+f5M26K8U/Sitf/8AIPuP+ubfyrj69XAfA/U+E4r/AN4p+n6hSjqK7eh8tH4kduv3R9KhuLuG0VWmfaGOBxmvn+p+wx+BGZcalE1q7CU7W3IOO+P/AK9c+CCOK9SljMM6vsafxH5ljcFmUYutjNUnpr3FortPKCuq0b/kFxfU/wAzXFjv4a9T6Xhb/e5f4f1RforyT9ACquo/8g64/wBw1pT+NHNjP93qej/I5CivfPyMKKALtW9N/wCQhF9T/I1tX/hy9Geblf8Av1H/ABL8zoaK+WP3cKz9Z/5Bcv1X+YrWj/Ej6nDmf+51f8L/ACOWor3j8oCt7w79y4+q/wBa5sZ/BZ7fDv8AyMYfP8mbdFeKfpRR1eYQ6XM2VBYbRuBwSe341xrTTKygxqVLfM69F9v5VrSrypyST0PFzXAUsSnKUbySdielUEsABk5r3W9D82inzpHbRsrL8pBwOcdqo3dt9uVUmVgFOQRxXlUKEZqTl0Pvs0zarhZ0YUUmpb+S0OfW0umRYngk2Bi33e+P/rVCtpdA4MEmP92vL9lUpYynVgt9H6G2aVKGIws4OS2uvVDWRkOGUg+4pK+qvc/OmmnZhXVaN/yC4vqf5muLHfw16n0nC3++S/w/qi/RXkn6AFVdR/5B1x/uGrp/Gjnxn+7z9H+RyFFfQH5EFFAF2rem/wDIQi+p/ka2r/w5ejPNyv8A36j/AIl+Z0NFfLH7uFZ+s/8AILl+q/zFa0f4kfU4cz/3Or/hf5HLUV7x+UBW94d+5cfVf61zYz+Cz2+Hf+RjD5/kzbprMqj5iB9a8Y/SdtTH1+/tbe1CyAyusiN5QGd2CDg+x6fjXH3N49/fzm3t2gikYuEbgIPb2p+y5o81zir1Up2SuX41CRIqnKhQAc1JGxSRWU4IIIr3rJxsflym41ufre/4nZxxqgJXjd1qK6Zo0UqcZbBrx6dSXPY/R8ZgqH1Zz5dUiuZX8uU7uVjZhx3FYZ1O7PWT9BXpUleUrnxmNm6dKnKO7vf7yvLO82N5zjpxUddCVlY8ipOVSXNIK6rRv+QXF9T/ADNceO/hr1PouFv98l/h/VF+ivJP0AKq6j/yDrj/AHDV0/jRz4z/AHefo/yOQor6A/IgooAu1b03/kIRfU/yNbV/4cvRnm5X/v1H/EvzOhor5Y/dwrP1n/kFy/Vf5itaP8SPqcOZ/wC51f8AC/yOWor3j8oCt7w79y4+q/1rmxn8Fnt8O/8AIxh8/wAmbMjrFG0jnCoCzH0ArlZPFdhea9bW1vtubUxMzMNy7X/Ec8D9a4KOFqVaNSrFaQTfztofeY/EqhRct32HagLTUL0SiJ0mPRt+QcDjjFUb3TzdGJFm8plJBYLnd9a+Yjmc7+9E+afEbl9juAgNvGqM+4rxnGKB1H1r6/LsV9awyqNW/wCAfJTmp1XNK12duv3V+lVr7/VJ/vVw0/4iP1LG/wC6T9Cqf9VP/wBcmrmq9aj8Uvkfn2Y/wKP/AG9+YUV0HkhXVaN/yC4vqf5muLHfw16n0vC3++S/w/qi/RXkn6AFVdR/5B1x/uGrp/Gjnxn+7z9H+RyFFfQH5EFFAF2p7SZYLpJWBKrnOPpXRUjzQcV1PIwdZUMRCrLaLT+5mp/bFv8A3JPyFH9sW/8Ack/IV4/9mVO6P0f/AF4wf/PuX4B/bFv/AHJPyFVtQ1CK6s3hRXDMRjI461VPLqkZqTa0ObF8ZYStQnSjCV5Jrp1MXyG9RR5Deor0vZM+L+vQ7B5DeorS0q5SxWUSAneRjb7ZrKvh5VIOKZ6GV5zSweKjWnFtK/4oXW7177R7i3siY7hwAjPwvUZBx7Zrz5/DWuidJIJ7WAgEZjYj8+K4VgK0U0p6Pddz658cYOpD2Tpb9WkzRk0fWhAsi36/ahxtDtsxn/Cok0jxEEaQ6ghnLYUeY20D1PFcKyPS7RpPi7K3OypK110X9WNDSdO1GBZH1C5EsrN8oViVA49e/WtIQNnqK9jC4NUKSgj47Ms4o4nFurCFl5aHRDWIAoGyTgegqG61KG4i2KJFOevpXNDLqkZXuj6SvxnhKlB01CV2rdCI3sflyLhsshUcetZHkN6iu6GHlFt33PmMVm9KtTpwUX7t/wAWHkN6ijyG9RWnsmcP16HYPIb1FbVhqEVrZpC6uWXOcDjrWGIwsqsbJnrZNntHA13UnFtNW0LP9sW/9yT8hR/bFv8A3JPyFcX9mVO6Pp/9eMH/AM+5fgH9sW/9yT8hUN3qcM9pLEquGZcDIpwy2opJ3RjX41wlSlKCpy1TXQwvIb1FHkN6ivT9kz4j69DsHkN6ijyG9RR7Jh9eh2J9w9aXcK2PMsxNwo3CgLBuFKcDrQFhNwo3D1oCwbh60bh60BYUEE4ozii4Wdw7fWlPHNMBCcHmk3D1pBYNw9aNwoCzDcKNwoCzDcPWjcPWgLBuFKCD0oCwm4UbhQFg3CjcPWgLBuHrRuHrQFg3D1o3D1oCx//Z/+Ex6Gh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRvclRvb2w+V2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NDwveG1wOkNyZWF0b3JUb29sPjx4bXA6Q3JlYXRlRGF0ZT4yMDIyLTA3LTExVDA0OjE4OjMzLjU0NDwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMAAwICAwICAwMDAwQDAwQFCAUFBAQFCgcHBggMCgwMCwoLCw0OEhANDhEOCwsQFhARExQVFRUMDxcYFhQYEhQVFP/bAEMBAwQEBQQFCQUFCRQNCw0UFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFP/AABEIAKMBewMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APW6BRRX7Qf5mFe+uGt41dQD82OfpVNdYcY3ICMdjip9W/491/3h/I1k15tapKE7Jn2mV4LD4jDKVSF2ai6whHzowPsc1KNTt2GclfqKxqXNZrEVEd08kwstk0bi3kLYxItSCRGwAwJ+tc9/npRz2rRYp9Ucc8gp/Ymzo/xH50V0/wAJLK3vrbVFuYI7hVePAlQPjhvUV2s/g/R7qTzJLCMH0RmUfkCAK8KvxHRw1aVGpB6dT9SyvwXzPOcsp5lhMTD37+6001Ztb7dDyTafpSV6bJ8O9KcsVM6A9FDggfmKoSfDSExsIr6Tf23IMVvT4jwE95NfI87FeC3FuHu4UozX92SOC20ldjcfDW8RAYbqGRs8qylR/I1SufAGsQ4CQxz/APXOQDH/AH1iu+nnGBqaRqq58fi/DrirApyrYGdl1Suc3S496hW8gdeJV/E4qTzEPKlSO3NeupRezPz6VGpB2lFp+gtFLml9jTMdVuNopVB5FAz2ouAlGKVcd6SmAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUA4oAKXHvRto2/jQITmjH4UvLe1FIYlFFLg0CEooopjZS1b/j3X/fH8jWTWtq3/Huv+8P5GsmvIxPxn6Fkn+6L1YUUUVzHvBRRRQB6h8G/wDj31b/AH4/5NXo/PFecfBr/Uar/vx/yavSK/MM4/32fy/I/ujw7/5JnC/9vf8ApTE+lGKWivHP0gTntS/xA/rRRTjujKr/AA5ejPmf+Xp/+ugZHIOKKK/ZY/CrH+bFZJzkn3Y9ZpFOQ7D8alW+nXP7zP1qvRV80l1OOWHoz+KC+4uLqkyrg7X9yK9Vm+GUbSMYtQZU7K0WT+eR/KvHq+l/xr53OsyxWEcPZTte/wCh+0eG3BeRcRRxccxw6ly8tns1fmuecyfDbUMMVubdyOQPmBP6VRm8C6xDDv8As6v7I4Jr1TIo4HGDzXiU+JsdH4rP5H6VivA7hasv3PPB+Ur/AJnjtx4b1S12mSxm+bptXd/KqE0ElvIY5Y2jkHVWUgivceema4/4q8+EX/67J/WvZwfE9StVjSqU1r2PzfiPwOwOW4Ctj8JjJe4m7SS6eZ53j86KwBcSrwJGAHQA8flUi6hOpHz5+or7RYqPVH8yyyGuvhkmbdGOcVkrqsqnJANT2+qNJLHGyfeYDINafWae5y/2JjXJRjG7fmX++KP89K7j/hWUi/8AMRUH/rj/APXq0nwztdoDXkpbHO1VArxZcQZfH7d/RH6TQ8IOL8RthkvWSR57RXo0Xw2sVkBe5mkXuvAqz/wr3Seflm/7+Vzy4mwEXo39x7FHwR4sqxvKMI+szzCj6c16pb+BdHhJLW7S5/56OePyqb/hDtFJx9gX/vpv8axlxRhOkWz16fgNxFKF6lWmn2u2eSkYox68VrfFKzh0nU7GGyT7NGYMlY+MnceTXFfaJSCDI5Hux/xr28PmMMTSVaMdGfluccGYnJsdUwFWqpSha7Sfa5v01nVBlmAHucVz2KK2+t+R5i4f11qG/wDaIv8Anov5imteQr1kX86wqKX1qXY1WQ0lvNm59ug/56Cui03wfqWqWMN3AkZhlG5SzgGuBr3rwL/yKWl8f8sv6mvCzbNq+DpRnSSu2fq3AHh9lfEmOq4fHSlyxjdWdtbo4+H4eatJIFcQxr3YvkD8qsf8K0v/APn6t8f8C/wr0XHvS/rXyMuJMe3o0vkf0JR8EeE6atOM5f8Ab7OAt/hjMynz76ONuwjjLD9SKl/4VgP+gl/5A/8Asq7qiueXEGYSd+f8D2aXhBwhSio/Vm7d5Ns5Jfhrpyooa4umfHJVlA/LaaX/AIVtpn/Pe7/77X/4musorm/trML3VZntR8NOEIxS/s6H3P8AzPCqKKK/bj/LxlLVv+Pdf98fyNZNa2rf8e6/7w/kaya8jE/GfoWSf7ovVhRRRXMe8FFFFAHqHwa/1Gq/78f8mr0ivN/g1/qNV/34/wCTV6RX5hnH++z+X5H90eHf/JM4X0l/6Uwooorxj9ICiiiqj8SMqv8ADl6M+Z6KKK/ZI/Cj/Nmr/El6sKKKKoyCvpivmevpivi+I/8Al38/0P6Y8Gv+Y3/tz/24KKKK+LP6YExXH/FX/kU3/wCuyf1rsa4/4rf8im//AF2T+tejl/8AvVP1Pj+MP+RDjP8AA/yPF+5oo7miv1c/gAKls/8Aj8g/66L/ADqKpbP/AI/IP+ui/wA6ip8LOrC/x4eqPpL1+tLR3NFfjktz/SGn8EfQKKKKRpYKTilpD3pAeT/GL/kM2P8A17/+zGuArv8A4xf8hqx/69//AGY1wFfqWVf7nA/g/jz/AJKPFf4v0QUUUV6x8AFFFFAC17z4F/5FHS/+uP8AU14NXvXgX/kUdL/64/1NfK8QfwI+v6H714P/API1r/4P1Ru0UUV8Cf1qFFFFABRRRQB4VRRRX9EH+N7KWrf8e6/74/kaya1tW/491/3h/I1k15GJ+M/Qsk/3RerCiiiuY94KKKKAPUPg1/qNV/34/wCTV6RXm/wa/wBRqv8Avx/yavSK/MM4/wB9n8vyP7o8O/8AkmcL6S/9KYUUUV4x+kBRRRVR+JGVX+HL0Z8z0UUV+yR+FH+bNX+JL1YUUUVRkFfTFfM9fTFfF8R/8u/n+h/THg1/zG/9uf8AtwUUUV8Wf0wFcf8AFb/kU3/67J/Wuwrj/it/yKb/APXZP616OXf71T9T4/jD/kQYz/A/yPF+5oo7miv1c/gAKls/+PyD/rov86iqWz/4/IP+ui/zqKnws6cL/Hh6r8z6T7mijuaK/G5bs/0ip/BH0CiiikaBSHvS0h70AeT/ABi/5DVj/wBe/wD7Ma4Cu/8AjF/yGrH/AK9//ZjXAV+o5V/udM/g7jz/AJKLF/4v0QUUUV658AFFFFAxa968C/8AIo6X/wBcf6mvBa968C/8ijpf/XH+pr5XiH+BH1/Q/evB/wD5Gtf/AAfqjdooor4E/rUKKKKACiiigDwqiilzxiv6IP8AG8o6t/x7L/vf0NZNdpofhlfFV41o1wbcRoZd4TdnBAxjP+1V+T4N3iyMI9QgKZ4LIwOPfFfMY7MMPQrOnUlZn7lwpwlnGbZXHF4Ki5wba0PPKK76b4PaisbFLy3kcdF+YZql/wAKp13+5bj/ALa//WrjjmWEl/y8R9NV4J4hpO0sHL5I46iupuvhpr9rt22qT7s/6qVTj65IqD/hXviH/oGv/wB/E/8Aiq2WNw8tpo8ypwznVKThPCTuvI674Nf8e+q/78f8mr0ivOPhyv8Awi66lFq7LpjyOmwXTCMPjdkqTww5HT1rubXW9NvrhYra/tbiZukcUysx/AGvz/NITqYuc4K601W2x/XfAeIo4PIMPh8RNQqK94tpNe8+j1L1FJ64owfxryHCS3R+kRxFKbtGafzDNLR+FHXA79qS0aHVkuSS8mfM9FFFfsa2R/m3V+OT82FFFFVYyCvpivmevpjpXxfEf/Lp+v6H9MeDX/Md/wBuf+3BRRnNFfFn9MBXH/Fb/kU3/wCuyf1rsK4/4rf8im//AF2T+tejl3+9U/U+P4w/5EGM/wAD/I8X7mijuaK/Vz+AAqWz/wCPyD/rov8AOoqls/8Aj8g/66L/ADqKnws6cL/Hh6r8z6T7mijuaK/G5bs/0ip/BH0CiiikaBSHvS0h70AeT/GL/kNWP/Xv/wCzGuArv/jF/wAhqx/69/8A2Y1wFfqOVf7nTP4O48/5KLF/4v0QUUUV658AFFFFAxa968C/8ijpf/XH+prwWvevAv8AyKOl/wDXH+pr5XiH+BH1/Q/evB//AJGtf/B+qN2iiivgT+tQopM/NijjcR3+tAhaKKKBnhVKPpxSUv8ADX9EH+N51fw3/wCQ5cf9ezf+hLXpBX5jzXm/w3/5Dk//AF6t/wChLXpP8Rr8i4l/39+iP9E/BL/kk4f45fmgpBxS0V8ofvoUfhRRQB5f8Zv9fpXf5ZOv1WvN+PQflXpHxl/1+lf7kn81rzev07KEngaafn+Z/DPiG3HibFNd4/8ApKD+frVm11S8soylvdz26E7isUhUZ9cDiq1Fes6cHvFHwMcZiYvmjVkn5Nl//hINU/6CV5/3/b/Gr6+OtfVQBqk2AMDOD/SsGisp4ei1fkX3HoYfOMxpVEoYiau19pnutx8PdAuI2T+z0jz/ABIxB/PNVP8AhVug/wDPGb/v8a66ivy/67iY3SqM/uj/AFYyWvGM6mFg3bscNcfCHR5ZS0c91AnaNWUgfmtRN8HdM2nbe3YbHHK//E131FaxzPGLaozz58C8OTd3g4/ieZ/8KY5/5DA/8Bf/ALOp7P4yWzSEXWmzQR7eGhlEpz6YIXjrzmvRa+Z69/L/APhWUvrevLt8/wDhj8n4wl/xD6VCWQJU/bX5r6p8trb9rs9f/wCFv6N/z7X3/ftP/i6t2/xS0CaIM801u3/POSE7h+WR+teK0fpXpyyHCPa/3nxFLxW4hjJufI/+3bHt6/Ezw8zAfbGGTjmF8fyrO8canaeKNCax0mdL+7MiuIYTlsDOTivIa7D4Vf8AI2J/1xf+lc1TKqODX1mk9Y66ntYLj/MeJqsclxcIqFf3HJbpPsYV14Z1az2mbTrhN+dv7snOPpUH9j3/APz43P8A36b/AAr6LorijxDUtrTR9RU8HcI5P2eKlb0R81SRtC5R1ZHHVWGDT7P/AI/IOf41/nX0eYY2yTGpPqy1BfW8Js7gGKMjy2JG0HtWyz72it7Pc8mp4TrBy9r9cXu6pNb21LeDk8Yo5r5vuNQurqUyTXM0sjdWdyxPbqevSo/tEv8Az1f/AL6NZ/6vSlr7T8Dtl4wU6b5VhHZeZ9KVHcXMVqoaaVIVJxudgBXzf9ol/wCer/8AfRprSPIMO7OM5wzGqXDuutT8DKfjIre5hNfOR9F/2xYf8/tv/wB/V/xpDrFhg/6bb/8Af1f8a+cxx70enatP9XY/8/Gcn/EY8T/0CL72eg/FSJ9U1azeyRrtFh2lrcFwDuPBIrmF8Ga4ygjS7nB5+5Xf/B7H9i33HH2j04+6K77A6/pXNPMp5a/qtON+Xqz2MLwNheM4/wBvYmrKDr68qS06bs8C/wCEL13/AKBdz/3xR/wheu/9Au5/74r33ij6Vn/rDW/kR2f8Qfyz/oIn9yPCrX4fa/ebtunvHtx/rWCZ+mTzVj/hWPiH/nzT/v8AJ/jXtv1oqHxBiOiR2U/CPJoxtOpNvvc8S/4Vl4h/580/7/J/jXa6V4y0zwno1vpl/JIL+0TZJDHGSc9cA9D19a7j8K8F8df8jdqv/Xb+grqwtaWdTdLELRa6Hz+d5bS8NaKzDJ23Oo+R82qtv+h6F/wuDRv+fa+z/wBc0/8Ai6P+FwaN/wA+19/37T/4uvIKK9b+wsH2f3nwH/EVOJP54f8AgCPXj8X9Hx/x7X3/AH7T/wCLqjc/GSBZ3FvpUksP8LyTBGPHOVAIHOe9eX0VUckwcej+8wreJ3EdWNvaRj6RSPTP+Fzf9Qf/AMmv/sKP+Fzf9Qf/AMmv/sK8zorT+x8H/Icn/ERuJP8AoI/BHR0v8NJS/wANfdH8pHV/Df8A5Dk//Xq3/oS16T/Ea82+G/8AyHJ/+vVv/Qlr0n+I1+RcS/7+/RH+ifgj/wAklD/HL9Aooor5Q/fQooooA8v+Mv8Ar9K/3JP5rXm9ekfGX/X6V/uSfzWvN6/T8n/3Kn8/zP4Y8RP+SmxXrH/0lBRRRXsn5sFFFFTLZmtL+JH1R9MUUUV+Ny3Z/pNS/hx9EFFFFSaiV80V9J3FxDZW8k88iwwQoZHkc4VFAyST2AAr5qmnggmjia5h3yIHG1wcAkDn05I/Ovq8jxNHDuoqslG9rX8rn8+eLGVY7MlhHg6Tny817dL8qX3jqKa0kfnSxLKkjxkBthz16f1/KnV9xTqQrRVSm7xZ/LmJwtbB1ZYfERcZR3T6BXYfCr/kbE/64v8A0rj67D4Vf8jYn/XF/wClcmYf7rU9D6fhD/kf4P8Axx/M9nHakJAOcgfU4pfu1BPdQorqZUDfd6/h/OvyyFKpU92EW/TU/vDFY7C4KHtMTUUE+raX5mbqXiDTvsrbNStd2e065/nWJd6tAlqzteRqsiNsYyj5uo49a8l1DQ9Q0lS13ayRIG2eYwypbrgMOCcc1Y1SVdW0/wAP2VqfOuYYniePHRmkJAyeOhHSvQnntfJMJJUsOqkk9nvqfj3FHAlLjDGQzKnj504qKSUH7rtfXfrczQwPGaWqcLCOQ7jgDiratuUEdPWve4Y4jWfUHKolGonrFPoup/P/ABdwrLhrExhSbnSaXvNdX0Fooor7U/PwooooA9Z+Dv8AyBb7/r4/9lFd9XA/B3/kC33/AF8f+yiu/r8szT/fKnqf3jwH/wAk7hfT9WFFFFeUffhSUtFACeleC+Ov+Ru1T/rt/QV716V4L46/5G7VP+u39BX1fD/8efp+p+CeMH/Iqof4/wBGYVFFFfen8lhRRRQIKKKKAOjpf4aSl/hr6A/Hzq/hv/yHJ/8Ar1b/ANCWvSf4jXm3w3/5Dk//AF6t/wChLXpP8Rr8i4l/39+iP9E/BH/kkof45foFFFFfKH76FFFFAHl/xl/1+lf7kn81rzevSPjL/r9K/wByT+a15vX6fk/+5U/n+Z/DHiJ/yU2K9Y/+koKKKK9k/NgoooqZbM1pfxI+qPpiiiivxuW7P9JaX8OPogpDS0h+Xk/5/wA/1qdzW5ieNNZl0DwvqWoQWtveS28W4W9zMIUk7FS5BxkZ7c9O9fNtrpOnyRG2iBFvepIs995mXiG0sgjBB6nAGMYHqa9/+KF/o0fgvWbXVrpYIJYPLfau94yxVVfYCCdpZWxnOBxXgnxY+Pmm/Eiz8NRW+lmz1DRY5IZBbbVg/g2hSDuCDBIVgMBu/NKWHrVkpU4trbTueDjq9KFSMHJJ2v8AIztHhj8NS/ZpL9ryOeQYeRcEMeAOp6nAro64bw/b3XiG8tbu5gkjt48S7tuAzKeMeoyAfwruf/11+hcPur9VaqbJ2R/JHiVSwtPN4uh8copy7a7fgFdl8MYnh1a41AjdBbwkOM4PzEAYrja7L4VuW8SNbk5glhbeh6HBBH616mY831WVu2p81wbyf23h+bdv3fKXRvyPXtLvF1S2eZFKKhxhqz7jSWlneQSINzFh+JrShtYoUKxqI1PJCkj+tPEKeh/76P8AjXxWAzKGXylKlHc/pzizgnEcWUKNHG1lanrs1d/8Mcj4r8Jz69o0VlFPHG6XAmLPnptIx9ea5fTvhfeafqFtcPe27RxSK5UBuQOoFdJHdTedcDzpCFkIHzn/AD3q9pbtI16Hd22wZGWPB5r0sTSo1ovFVFqz4PJcbmGCnHIMJVSjTuldX2uzzqT4SX65JvrfP0b/AAqG4+H91YWryNcwvsGeAf8ACsr/AISLVD1v7j/vs0x9c1CRSHu5nB6hmyKvK+GcJlFaWKwitKS1u7+Z+c5xxfUzujHCY7WEHfRW20ItR0+XS7yS1nwJUALBTkDIBH6EVWqa6vJr6dpp5DJK2Mse+BgfoB+VQ19hDm5Vzbn5xiHSlWk6Cahd2vvboFFFFWc56z8Hv+QLff8AXx/7KK7+uA+Dv/IFvv8Ar4/9lFd/X5Zmn+91PU/vHgP/AJJ3C+j/ADYUUUV5R9+FFFFACeleC+Ov+Ru1T/rt/QV716V4L46/5G7VP+u39BX1fD/8efofgni//wAiqh/j/RmFRRRX3p/JQUUUUAFFFFAHR0v8NJS/w19Afj51fw3/AOQ5P/16t/6Etek/xGvNvhv/AMhyf/r1b/0Ja9J/iNfkXEv+/v0R/on4I/8AJJQ/xy/QKKKK+UP30KKKKAPL/jL/AK/Sv9yT+a15vXpHxl/1+lf7kn81rzev0/J/9yp/P8z+GPET/kpsV6x/9JQUUUV7J+bBRRRUy2ZrS/iR9UfTFFFR3FxFawvLPIkMKKS8khAVQBySTX44/iZ/pNS1hG3ZCXF1DZ28txPLHDBEpd5JGCqqgEkknoMA1y3gX7b4ltYdfiv1urC4Z2jW1/eI/LL94cEA+npXzp8Wv2lvFEWseJ/DGn6Zpd5ojiayjuo4pXd4mUqWVhJtJweMA/Q1U+BHiAaD4IW2uHggdruR9s7BW5CjoTwMCvez7JsTkuQf2rCcJVHKNoqSfutNtu2qa0Pg+JM7xeVKNXD4WVSzta0lr92p6F8Vvh74obU7+Qwm50W8uHdpLdWd4kIJ+ZdvAA4zmsC18H6FqlvJ5lpZxFYsiRkCF8dlYDj8MVfm8RaZHrVoBqFoR55BKzrwNrc9a1tU8RaW3lkalaE/NnE6n0461+Hw4rx1NJSpNX10vb1PzatxtmM1Go8qk29/dlpr10PH4PGV4bm2s7iOaCK1uMHByOG549DjmvQo3EsaOudjAEZ9K3NL13T4dPxPqVojNJIwBuFGVLkrwTzkEH8ayG1ay1BAtreW906nJEMquQPwNfc8L8XVp49ZfKjZTdr/AKn5hxrjcZnFWNaeCnT5Lrm5XZrprawyuw+FP/I2J/1xf+lcf7eldh8Kf+RsT/ri/wDSv23MP91qeh8xwf8A8j/B3/niez8/L6Uoo7CivylH9/vY4WP/AF91/wBdT/IVpaP97UP+vf8AqazY/wDX3X/XU/yFaWkfev8A/r3/AKtX21b/AHJfI/mDLb/6yT/7f/8ASWeH0UUV9fHY/nSp8b9QoooqjLyCiiigD1n4Pf8AIFvv+vj/ANlFd/XAfB3/AJAt9/18f+yiu/r8szT/AHup6n948B/8k7hfR/mwoooryj78KKKKAE9K8F8df8jdqn/Xb+gr3r0rwXx1/wAjdqn/AF2/oK+r4f8A48/Q/BPF/wD5FVD/AB/ozCooor70/koKKKKACiiigDo6O1FKtfQH4+bXhPXINB1GW4uFkZGhMYEYBOSVPcj0rrv+FlaX/wA8br/vhf8A4qvNyKBivCxmS4THVfbVk7+p+rcO+JnEHC+BWX5dKCppt6xTd35npH/CytL/AOeN1/3wv/xVH/CytL/543X/AHwv/wAVXm/FHFcX+rOX9n959P8A8Rw4v/np/wDgC/zPSP8AhZWl/wDPG6/74X/4qj/hZWl/88br/vhf/iq834o60f6s5f2f3h/xHDi/+en/AOAL/M1viBrEPiqSxa0WRBArhvOAHXGMYJ9K5H+y5v7yfmf8K2NtBxXsUMvoYamqVNaI/Ns14vzTOsZPHYtxc572VlorbGP/AGXN/eT8z/hR/Zc395PzP+Fa9FdH1ameT/bWL7r7jI/sub+8n5n/AAo/sqb+8n5n/Cteik8NTehUc8xkWmmtPI9J/wCFk6Z/zxuv++F/+KrI8X+MLHxF4V1nTLcTwXN5ZTW0U0kSssbvGyqxG7kAkZHeuNoxXgPhnL30f3n65Hxu4vgly1IK39xHzpcfBz4oTRPENT8OLvypdXmVsHjg+Xwfeub8N/sz+PLO6NzHfaRYyxyPGsdxcyESryPMwkbDaeo3EHgZAr6w+nFBY1jLhfL+VxhG1/M7V478Y1a0K+LrKpKO2lrfceGa1+z7qcegSXRurGbxVbWf+jNZTFkebglSxCjBUuBnPJ5xkmuTh/Z58f32qW7arrGlzafu/fQrIfnXuM+UOfxr6g4bP+c/WjJ5PSsI8I5dCKiov1Ouv4+8XVqtSqpRXNtptp+PzPmrVv2f/HQuJrfQrrStO0S3REhWS5JZmYEscFGYnduPTHI/D0b4V/C++8G6DGNUlt7nXG3rNdQuWDLvJUfdA4GO1enLjOc4x0yaQ+3Su3CcOYHB1fawV2j5zPvF/iXPsF9QrzUYdbdfL08jI/sqb1THbk/4Vv8Agm5Tw3ri3l0C8QjZcRctk/XFV6K9urgqNaDpz2Z+d4DijMctxVPF0GueDTV1fVHpP/CytL4/c3X/AHwv/wAVR/wsrS/+eN1/3wv/AMVXm1AGa8T/AFZy/s/vP1B+N/F/89P/AMAX+Z0K65Y/bmujFKZfmCNxwrbSR1xyUX8q0LHxhZWrXReOc+bFsG1V688nn3rj9tG2vRllOFlT9k07ep8bS8RM8o4t46Eo87v9nTXR6GR/Zc395PzP+FJ/Zc395PzP+FbG2kIxXd9Wpo+TeeYyTu2vuMj+y5v7yfmf8KP7Lm/vJ+Z/wrXop/VqYv7axfdfcZH9lzf3k/M/4Uf2XN/eT8z/AIVr0oxR9Wph/bWL7r7joPAPiK28L6fcwXaSu8ku8GEAjGAO5FdR/wALK0v/AJ43X/fC/wDxVeb7aOleLW4fwNeo6k07vzP0vLPF7ifKcJDBYWcOSG14Js9I/wCFlaX/AM8br/vhf/iqP+FlaX/zxuv++F/+Krzfijisf9Wcv7P7z1P+I4cX/wA9P/wBf5npH/CytL/543X/AHwv/wAVR/wsrS/+eN1/3wv/AMVXm/FBxR/qzl/Z/eH/ABHDi/8Anp/+AL/M9I/4WRph/wCWN1/3wv8A8VXmXiVTrGvXt7D8sU0m5VfhgMDripKK7cLkuEwcnOknd+Z8zn3ibxDxHQjh8fKDjF3VopamR/Zc395PzP8AhR/Zc395PzP+Fa9Fen9Wpnw39tYvuvuMj+y5v7yfmf8ACj+y5v7yfmf8K16KPq1MP7axfdfcZH9lzf3k/M/4Uf2XN/eT8z/hWvRR9Wph/bWL7r7gooorqPBClWiigBdoo2iiigkNoooooAaaKKKCgooooAKKKKACgUUUAK1JRRS6gthTQO1FFMOgpA3UjdaKKHsiUJRRRQUFFFFABRRRQAUUUUAFFFFABRRRQACnUUUCYbRRtFFFAg2ikaiigYlFFFAwooooAKKKKACiiigD/9k=)

וכן נדרשים כמובן שיפורים אסטטיים לתמונה – משחקים עם ניחות ואור וצל שקיפות ושתקפות ע"מ להגיע לתמונה ריאליסטית יותר

A picture containing toy, colorful

Description automatically generated

A picture containing text, toy, colorful

Description automatically generated

כאן כבר יש משחק של כל האלמנטים הרצויים

נשאר רק לשפר סופית את התמונה ו.... שיפור ביצועיםםם-

הזמן שלקח לנו להריץ את התמונה השלמה היה עצום – כמה שעות טובות

Graphical user interface, text, application, email

Description automatically generated

בשל ריבוי הצורות בתמונהו ולשם כך הוספנו את 2 שיפורים:

**MULTITHREADING:** הדבר שגורם לעיכוב הכי גדול הוא ריבוי הקרניים בשל הSUPERSAMPLINF ולכן הוספנו מספריתת הTHREADPOOL את האופציה שירוצו כמה תהליכונים בנפרד כך שדגימת הקרניים תיקח פחות זמן:

Graphical user interface, text, application, email

Description automatically generated

זה שיפר לא בהרבה את זמן הרציה(הוריד בדקות)

השיפור הנוסף שהוספנו הועיל הרבה יותר והוא :

**ADAPTIVE SUPER SAMPLING:**

כאשר על פי נדרש בתמונה ומשאבי המערכת התוכנית תדגום קרניים רבות כשצריך ולא כשלא כדאי/ לא צריך

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

כאן השיפור היה ענק!

לתמונה עדיין לוקח הרבה זמן לרוץ אבל בלי השוואה

Graphical user interface, application, Word

Description automatically generated

חשוב להדגיש שאת כל השיפורים אפשר להדליק ולכבות כרצון המשתמש- לכול שיופר הוספנו משתנה בולאיני כדי שהמשתמש יוכל להחליט בנוחות זו בעצם תצורה של אנטיאייליאסינג בה פיקסלים נצבעים בכמוכיות שונות – התוכנית מזהה פיקסלים שכוללים "קצוות " וצובעת את הפיקסלים הללו

\וכאן התמונה הסופית:

A picture containing toy, colorful

Description automatically generated

A picture containing toy

Description automatically generated

תודה רבה!

סיכום בונוסים שעשינו:

1. נורמל לגליל סופי
2. חיתוך עם מצולע
3. חיתוך ךעם גליל סופי
4. טרנספורמציית סיבוב ומיקום מצלמה
5. שימוש בקבצי XML להדרת סצינה
6. תמונה בשלב 7 עם 10+ עצמים
7. שיפור אקסטרא- 3 שיפורים בשלב 8
8. הוספנו צורות- מעגל, קוביה, שולחן