Desarrollo del parcial 2019

Johan Daniel Ortegón Parra

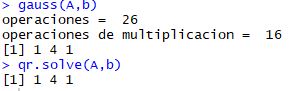
**Punto 1 a:**

**Código en R**:

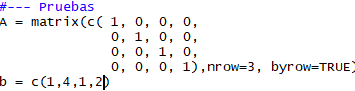
![Imagen que contiene texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGRhbmllbCBvcnRlZ29uAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNTEAAJKSAAIAAAADNTEAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMTk6MDI6MjggMDg6MDQ6MDQAMjAxOTowMjoyOCAwODowNDowNAAAAGQAYQBuAGkAZQBsACAAbwByAHQAZQBnAG8AbgAAAP/hCyFodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDE5LTAyLTI4VDA4OjA0OjA0LjUwNjwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5kYW5pZWwgb3J0ZWdvbjwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAJLAiQDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD33yYv+eaf98isPxRqF3ounrd2NnZyRCWKORpmO4b5VThQOeGzncPoa36w/E+i6hr1itnZ6hbWcBdJH820aZiyOrrgiRQBleeD+FHVAa0q20ELyzCKOONSzu4ACgckk9hUFle6XqO/+z7mzu/Lxv8AIkV9uemcdOh/Kp7RbpLVFv5oZrgffkhiMaHnspZiOPc0yw06z0u3aDT7aO3iZ2kKxrgFick/56AADgCgBvifU7Pw54fuNQazMsirshjitHl3ykHYpCAkAtgZOByBnkVmaVef8Jbo97Jay3OmeRcFIriLTfJZ1VQDxcRsDlw/QZGADg5zreI/DVl4lhtItRgtZkt7gTbbi2WYMAD8o3dMnGfUDHepNA8PWPhzQIdL06CGFEjCyPDCsfmvtALsB3OK9CM8NDDXWtS/bS3z/rUWvMuxi6DqdxN8NtK1afT5dUvbizjkl+zRwK5Yrkvh2RMewP4VQfW5oPCPg3UIne8bUri3Wd/sUayXKPA742DKoSQvQ4HrjNdToWif2L4Ts9F+0ef9ltVt/O2bd2BjO3Jx9M1lN4NmTwv4d0q11NYp9BaF47hrbcsrRwtGMpuGAd2SM5wMAjORvGrhfaSulbmdtOlpeWnTb9NJs+Vej+/oMfxjpENsjT6ReR3J1Aac9l9nR5o5ihkUEKxUqVAO4EjkdskacN+JtGa9Hhy9SZZGj+wvFCsxIbbkHfsx3B34xWfF4Lfzbe6utREt6NWGqXMqwbVlYQmIRqu4lFC7cZLHg9c1o+KdBfxHpKWcd0lvtnSVlmh86GcL1jlj3LvQ55GRyB9Kyn9U54xht1eunotHb8fQev8AXz/4BmP4v0mPT4biXSLxZZdROmm0W3R5Y5wrNghWK4wvUEjkHpki5DrdkRYfb9HutOe+uXtUS6hjGyRQxAYqzDDbTtIJB49RWXpnw/OmiCOK9tkt4NWXVEgtrHyVVvKaNkADkBSTkccYwd2c1o+Ogs/he4s0tru4vJx/oQtYHcpcKQ0TFgCseHCnc2BxWkoYSVWNOlqm99dPk+279Nxe9/Xz/wCAJqXiLTbKw1yeCwNw2jqFcLGoWWUqGEan1+ZM9huHvhGnPhnQRf8AidxeF5VNzLb2yLDZq2BkD73lKepJZuSTx0cPCnm+Bp9DuLphc3UTtPdoOTcOdzSY/wB/kD0AFOks9U8Q6B9g1hP7LcyiO98lhIt3EB8wjYEMiv0ywDAbhjo1Qlh7WW3Nr3tZarrq7vTyvoGr1BHtvE2jzTaRPcafEkzLHeQQwnzwnBZN6uChORnAJ25HGCczR/EcFt8O9B1bWoftl5qEUMYEUUaNPM65xztRc4PUqO3UgVu+H9CbQNIfS47tp7ON2Fmrqd1vCfuxFiTuC8gHjjA7ZNS28N3uneDLDQrC/tGNrAsEkl5YmaOdAuCDGJFxn/e/Ojmw2sPs8yt3tZ3u7X7XX3dx6/n/AMAkvNZtNN0RNU1XR7iyg8wJOsiRM1spOPMfY7DYOMlScA5IwCRGJR4k0eS48OSLZtFOywXEtsjw3Wzg8dTETkZBUnbkHHWC08Fta+ExoKajst5bhpLsQw7FaJmJaCJdx8pDnbwSQuccnImstN1Dwr4ebT9FjOqKsxSwimcRraREfKsjkksiHIBALYKjBwTQ44dJ+yacubS+1vn+r28w1v8A1/X9epc8PXltrugWuomxS3eZSJIWUHy3UlXXOOcMCM960vslv/zwi/74FUvD2kf2FoFrpxna4eFSZJmGPMdiWdsdssScdq0q4a3J7WXs/hu7enQI3srkX2S3/wCeEX/fAo+yW/8Azwi/74FS0VkURfZLf/nhF/3wKPslv/zwi/74FS0UARfZLf8A54Rf98Cj7Jb/APPCL/vgVLRQBF9kt/8AnhF/3wKPslv/AM8Iv++BUtFAEX2S3/54Rf8AfAo+yW//ADwi/wC+BUtFAEX2S3/54Rf98Cj7Jb/88Iv++BUtFAEX2S3/AOeEX/fAo+yW/wDzwi/74FS0UARfZLf/AJ4Rf98Cj7Jb/wDPCL/vgVLRQBF9kt/+eEX/AHwKPslv/wA8Iv8AvgVLRQBF9kt/+eEX/fAo+yW//PCL/vgVLRQBF9kt/wDnhF/3wKPslv8A88Iv++BUtFAEX2S3/wCeEX/fAo+yW/8Azwi/74FS0UARfZLf/nhF/wB8Cj7Jb/8APCL/AL4FS0UARfZLf/nhF/3wKPslv/zwi/74FS0UARfZLf8A54Rf98Cj7Jb/APPCL/vgVLRQBF9kt/8AnhF/3wKPslv/AM8Iv++BUtFAEX2S3/54Rf8AfAo+yW//ADwi/wC+BUtFAEX2S3/54Rf98Cj7Jb/88Iv++BUtFAEX2S3/AOeEX/fAo+yW/wDzwi/74FS0UARfZLf/AJ4Rf98Cj7Jb/wDPCL/vgVLRQBF9kt/+eEX/AHwKPslv/wA8Iv8AvgVLRQBF9kt/+eEX/fAo+yW//PCL/vgVLRQBF9kt/wDnhF/3wKPslv8A88Iv++BUtFAEX2S3/wCeEX/fAo+yW/8Azwi/74FS0UARfZLf/nhF/wB8CipaKAM6svXgyaebg6zPpMMALSSwRxsW7AfOjd+wGSSBWpWTregDWp7Kb+0byyeykMsf2byyCxGAWWRGBIGcccZNJjRNoM2oXHh+yl1mIRXzxAzIBjDfTsfbtWhUVtC8FqkUtxJcuowZpQoZ/c7QB+QFS1T3Etiv4k159Dgs0tbQXt9qF0tpaQNL5as5VmJZ8HaoVGJIBPHANZcHjG9bSNcnvtO0/T7nR7sW0outU2WxzHG+8zGP5V/eYGUzx0GcC94w0v8AtHSYZIrbUJruzuFuLVtMkhS4icAruUzERnhiCG4IJ4Nc7o3gOe/0m8fXJ9RsLu41hdUtpGniluYHSJI1Z/laIsdpJUBkG4AdBiV1v/Wq/wCCN9P67/8AALWkfEiLVbDTJ4rS2la81ltJka0vRPCrLG7+YkmweYpCjsvX2q1qHjea10/UJ7fSTM1nqZ08s0zLEgCBzNK6oxjjGcE7WxxngkhP+FeWi28yJrGqLM+oLqUdzuhMkFwF2s65jK/MCchgw5OAtWbXwYmnadPbaVrmrWUlxeNey3SSRSSM7KAwPmRspU4zgjg9MDAp/wBf+k//AG33ifl/Xxf/AGpDd+Mbm18IWusx2Vlevcy+Xvsr9prOJfm/evcLFkRjby3lnBIzxkja0HU31jRYL6Q2JMwJDafefaoWGcZWTau4fgKzrXwemnaINP0nWNSsJDcvdTXkPktLPI5JcsHjaPknoEAHGMVf8P6Ba+HNNazs3ll8yaS4mmmILzSu253baAoJJ6AADsBT01/r+v607D8v6/rT/PvJq2s2uiwxy3kV9IsjbQLOwnumBx3WJGIHueKTSdatdaikks4r6NY22sLzT57Uk+wlRSR7jNLq2g6Rr8McOu6VY6lFG25EvLZJlRsYyAwODSaToGj6BFJFoWk2OmRytukSztkhDn1IUDJpLzB+Rz3xP1PW9L8HPLoCQhpZ4YJZnu2geNZJkT5NqNydxGcgrnIyRils7268J2ekWV/YES6pqn2TH9tXF/5QMTvv82dAx/1eNmABnOa39e0S28Q6S2n3rypE0sUpaIgNmORZF6g8ZQZ9s1Hr+gQ+ILW2jkurizmtLhbm2urXZ5kMigjIDqynhmGCpGDSWn3/AIaf8EejX3/fbQw9Q8eT2sgitdGa7mfXDo6RrcqmT5Jk8zJGAOMEemSMngxv48vbWK6tL3Q4xrUV/FYQ2lve74Z5JI/MU+ayKQoXcWymRtOAavWngLTbT7Ptur6VoNVOrB5Zg7POYzGdxK/dIYnHr0OOKl1LwVp2pvfyyz3cM95cw3SzwShXtpYkCI8ZxxwOQ24HJBGDihXsr+V/wv8AqHX7/wA3b8LGb4p8SeLNB8JDUk0bRxeC7hhkjbUZZIwkkqICD5KkklyDkDb1+b7p2Ly78Qp4akn/ALL04aiA2+BdUkEapg/MsvkZ3dONgHvTbnwsNR8N3Gj6vq+oagJ3VxdzCFJY2VgyFfLjVPlZQRlTz1zWhZabLb6W9ne6nd6kzhg1xcrEsmD2/doi8f7tKSbi0hxsmmzmdE8TfZPAXhFoY7m9vdZggjtkvbre7MYTIzSzbecKrEsFyT25pl18Qrq1mWxOhGXVF1dNLltortdgLwGZJFkZRuXaBkEKRzwcAHYTwdp8XhzR9IimuUGirELK6DL50bRpsDfd2klSQQVwcnioYvA2nJcQXUtzeT3kepDU5LmV03zyiIxKGwoAUIcBVC9B750k05t9L/hdfpciOkfO346/8AoXfjTU7bw34iludKgttW0crEsMV0Z4ZHkVTGQ5RDjLjIKjGD1q9OLrwn4VkMd5Pq2rXEipHJfSkia5kIRflHEaZwdqAAAE9ck2b/wjp+o22uwXLTFdcVRcYYDyysYRSnHBG0HnPIquPDMmuWNtbeOYbHVBZSsURYw0F38uFlkidTtcZb5QzAHnPQCNfy/4P9f5FFzwprU2u+HYbq9jSG/jZ7e9hj+7HPGxSQDknGRkZ7EGtmuctvB1loum61b+GVOnLqSEpbWzLBDby+Xs3x7F/dk4UkgHkZxnOdTQ7G40zw/p9je3cl7c21tHFLdSMS0zqoBck8kkjPNVv+AtjA8eX9/YXHhc6YZWkm1pInhjm8sTKYJjtc/3cgE9enQkAU+0u7jxhp+oWNw1xoWraVd+U72N2ZFjk2B0YMVUSoVkB2umPUZANaniDw7B4ijshNdXVpJYXIurea1ZQyyBHQH5lYEDeTgjBIGcjINOPw/faJo9xb+G7lJdQvrkzXeo6m25yzLgy7EUK7AKoCDYuB1GMGVs0/62/wAmN7pr+t/80M0nxFcaj8PYtWvUNveNC6Si3jMgSZCyMVHPy7lJBPAHWtrSYfI0q3G+SRnRXZpJ2lJYgZ+Yk8fTj0qtp2gW+keFY9D0+SRYorcwrK53OSQcux7sSST7mrWlxXFvpsMF3HDG8KCMCGQupAGAclRj6fqaruR2Of8AiJ4yg8F+FpbtnQXdxmC0VriCLEhGFb966gqCRnGSByRjJDPh14rk8YaRe6ifMMAvGigZ5raT5VAGMwOwzkFjn+9xlcGuh1PS4tUW2WaWaMW84nXymA3MAQM5ByATn6gVJpthDpel2tha7vJtYVhj3nLFVGBk9zxSjpdsqWtrGX4v1bUdG0ZLjSbYzSNOkcsgtZLr7PGc5k8mMh5AOPlUg856CsGf4gR6J4TGqalq2j6q816tnBJb5sYUkYZ2zGSSQxbQCWzkgD7ueK63VtOm1K1WK31O80yRHDiez8vf0IwRIjqRz0I9KxW8BafJpdxbz3t/LeXF4t8+pmRFuBcKoVZBtUIMKoXaE2kZyDk5S/r8P+D8x6aE3g3xdb+LrC7mgNoZLK5NtM1jeC6gZtquDHKAu4YcdVBBBGOKseKdem8PaUl1b2JvGeYREs7JFACCTJK6qxSMY5bacZGcDJFzStPuNOtmju9WvNUdm3edeLCrAegEUaLj8M0mradPqVukdrqt7pciPuE1mIix46ESI6kfhTl5CXmYy+MHXT/D9xJb2NwdZvxZh9Pv/tEKApI+9ZNi7x+7xjA69eOa1/46ntpBDZ6P9qnfXDo8aG6CAnyTKJCSpwOMEcnHIyeDY/4QHT00ODT7e9voJ4L46imoIYzP9pYsWkwUMeTuYEbNuDwBWTq/gCWGHSbfQrrUD/xP/wC07u7adGmhJgkRnBcYPzFflIbqeNvAOvz/AFj/APbf1sPbTz/KX/2v9b3YPHkrN/Z9zpSR65/af9m/ZEut8JfyvO3+bsB2eXznZnPGO9RXXxCurWZbE6EZdUXV00uW2iu12AvAZkkWRlG5doGQQpHPBwAdOHwPp0VkENzeSXovv7QOpO6eebjbs38Ls+58m3bt28YpIvA2nJcQXUtzeT3kepDU5LmV03zyiIxKGwoAUIcBVC9B75F0v5fpf9f62O/z/W36f1vk6h8SjoenXp8QafaWOoWt/FYqn9oj7M7yoHVjO6LtULksSmRtOA3FbPg3xdb+LrC7mgNoZLK5NtM1jeC6gZtquDHKAu4YcdVBBBGOKXUvBenanJfyyz3cM95cw3azwyBXtpYkCI8Zx6DkNuByQRg4rT0rT7jTrZo7vVrzVHZt3nXiwqwHoBFGi4/DNEdnf+tv+CN9Lf1/WhU8Sa8+hwWaWtoL2+1C6W0tIGl8tWcqzEs+DtUKjEkAnjgGuNj8d3Hhy28RXniNYo7g67FY29vPqAFvCzW0LY85wAkf33J2g8n5cnFdtr2gQa/bW6S3FxaT2k4uLa6tWUSQSAEZG4MpyGYEEEEE8VlD4f6d/Z95byahqUk91fJqP21p18+K4VFQOhC4HCD5SCvJGNvAI6Xv/Wq/yYaf131/4H4mBefE3Ubrwdc6r4bs9FvLiy1KGxuiNTaa3y7xANFIkf7wESgZIXac8NjB6bW9c1fRvAt9ql5YWcWpwxkRW8F000W8kKmXZEOMkE/L69alufCo1Dw5c6Rq+sajqInZXF1MIUliZWDIV8uNU+VlBGVPI5zUlz4bXUPCt3oesaleakl3GyPc3AiSUA9CPKRFBU8g7c5FD2f9dEC6FOcXXhPwrIY7yfVtWuJFSOS+lJE1zIQi/KOI0zg7UAAAJ65JZps1x4z8HQvNdT6Tq0EjRzvYylfs91ESjjaSQ6ZBIVwwIKnHQ1IPDMmuWNtbeOYbHVBZSsURYw0F38uFlkidTtcZb5QzAHnPQBkfhRvDtrfR+BY7PTjqMyM0Uibbazwm0yRQooyxwuVLKCecjkEfX8P09P8Ahuwl0/r/AIf/AIfuX/COsXGveFLHUL2JIrqRWSdI/uiRGKPt9tykj2qTxTdXNj4P1i7sJfIuoLGaSGXaG2OqEqcHg4IHBqbQtGtvD+hWmlWJcw2sYRWkOWc9SzHuSSST6mrVzE89rLFFcSWzuhVZogpeMkfeG4Fcj3BHtSmrppDg7NNmZNrsWlaNZXOqR30zzRqG+x2E1027bkkrCjED3IAqxpOtWutRSSWcV9GsbbWF5p89qSfYSopI9xmm6l4f0nW7OG21/TrPV0hwV+320cvzYxuwVwCfYCnaToGj6BFJFoWk2OmRytukSztkhDn1IUDJqm7tslJpJGb4t1G+t5NH0zS7g2lxq999mN2qKzQIsTyuyhgV3ER7RuBGTnBxim+EtTvbi41rStTuWvJtIvRbrdsiq06NEkilggC7gH2naAOM4GcVpa5odvr1nFDPLNby28y3Ftc25USQSrnDruBGcEjBBBBIIINJoehQaFazRwzTXM9zM1xc3VwVMk8hAG5toVegUAAAAAAClHrf+tv+D/WzfS39b/8AA/rfTooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDOrJ8RW5n03K22pXbI2Vh068Ns5ODyW8xMgemfwNa1U9R0q21WNEumuVCHINvdywH8TGykj2PFJjWjKXhKeW58JadLc3bXkxhAkmZSCWBwQcgHIIxkgE4zWzUFlZW2nWMNnYwrDbwqEjjXooqeqbu7krYzPGGuanox0SHRYrSSfUtSWzb7Xu2opikcsNvORsH16cZyH+GdU1S6v9Y03XHs5rjTZ0jFxZwtCkqvGrj5GdypG7H3jn2rWvtKs9Sls5L2HzXsbgXNudxGyQKy7uDzw7DByOaW3061tL27u7eLZPesrzvuJ3lVCjgnA4AHFJaf16f8Ep9P67/wDAMrxZ4vsfB9lBc6jHvSeTy1H2u2t+cZ63EsYP0BJ9qTwn4xsfGFrcT6dHsW3cI3+mWtxkkZ628sgH0JBroKKEJnN+MNc1PRjokOixWkk+paktm32vdtRTFI5YbecjYPr04zkc/deMPFFjqCaOy6RdX/8AbUOnm4EMsMTRyWzTbtm9yrKVxjcQcfw5yO5vtKs9Sls5L2HzXsbgXNudxGyQKy7uDzw7DByOaqzeGdIn1IahLabroXSXgk81x+9SMxK2M44QkY6d8Z5pLz7/AIaf8H7xu34fjr/wDKvdZ17SLbSLDUG06fVtU1BrVLmCGRLdECvIHMZctu2R427/ALx64rFuPiFqWk6zcafqltaTtZ3Utq8lurRi4c2ouIQoLHYSNykHdyAQe1dxqemWWqWqxajEHSNxKjhyjRMvRldSCpHPII4J9ayrXwr4YvdNtXtrWG9theJqcNx57TGScfdmMhYlzjABJPAA6CqSdm3/AFt/wf62X9fn/wAAwL7xvqV34N1zU7GKGye2tII4y5LG3upOJAxOAQm9Owzg/he1ttO+HvgmRbC7g06e6mSEahfSglp5MKZ5nc/OwA3EseQuOmBW2vhXRU0rU9NSxQWmrSSy3kRZiJWkGHPJ4z7YA7U3StCltEtv7Wvm1SaxdhZ3EkeyREZQv7zB2u+MjftXg9OpM7/h/wAFB/X/AAf6/UwvDNzYfEXwHEuqXMGo3FpO9vLe2UoG24iJUTxSJ9wsCHBU8B8eta/gfU7vWPBen3eoyrNdFXillQYErRuyF8Dgbtuce9Sah4daU3sui3h0m61J0N9dRp5kjqqbRsDHaj4wN+1uByDwRo6Zptpo+l22nadCILW1jWKKMEnaoGByeT9arv8A1/X9dkI5v4k+Ir7w/wCFX/si1kuL69b7LCY47gmIuNu8GGKQ5BIIBxnBwc4Bj+Gmr6nrug3WpapbNbpcXRa2V5Lhj5QVVXHnRRnaQAQRkNuJ4ORW9rz6LDaQXPiK5trW3gmDxy3Nx5KLJtZRySATgtx+ParOmfYI9HtRpTwtp6QqLd4XDR+WBhcNnkYHXNOMJKLm1o9F/XcctbJGX4s8X2Pg+ygudRj3pPJ5aj7XbW/OM9biWMH6Ak+1J4T8Y2PjC1uJ9Oj2LbuEb/TLW4ySM9beWQD6Eg1t211Be2sdzZzx3EEqh45YnDK6noQRwRUtKzTaYb7HN+MNc1PRjokOixWkk+paktm32vdtRTFI5YbecjYPr04zkYk3i/xDYtdaROumXOrDVINPtrpIZIrf97F5u94y7N8oDDAf5jjkZrr7mz0zWbmAz+XczaXdCZAkpzBNsIG4A9dknQ9mBx0qC/8ACui6nHfJfWKzC/kjluCZGBLoAEdSDlGAUYK4IxnrSs1v3/DT/g/eO6v8vx1/4Bm6hq2uaNHpVheT6fd6lqt/9liuYrR4YYlEbSFmjMrEnEbADeMkjpUFvJF4qh17Q/Fum6bqL6PcqhLWwaGXdCsiOI33bWAfHU9Mg84GwnhXSl00WLpd3ESzCdHub6eaaOQdGWV3LqR7MOp9TVnTdE0/SLWaCwgKLcSNLOzyNI8rkAFndiWY4AGSTwAOgqZK8Wv66f8ABBOzT/rr/wAA4fSdTudG/Z2029050iuY9IgSGRx8sbMFUMR7bs49q1dbbTvh74JkWwu4NOnupkhGoX0oJaeTCmeZ3PzsANxLHkLjpgVvr4c0pfC//COraD+yvs32T7OzMw8rbt25JJ6d85qHStCltEtv7Wvm1SaxdhZ3EkeyREZQv7zB2u+MjftXg9OpNzfNKTXX/MS0S/r+v67mF4ZubD4i+A4l1S5g1G4tJ3t5b2ylA23ERKieKRPuFgQ4KngPj1rX8D6nd6x4L0+71GVZroq8UsqDAlaN2QvgcDdtzj3qTUPDrSm9l0W8Ok3WpOhvrqNPMkdVTaNgY7UfGBv2twOQeCNHTNNtNH0u207ToRBa2saxRRgk7VAwOTyfrR3/AK/r+uyEY3i/W9T0htFg0ZLQz6nqS2bNdqxVFMUj7gFIJIKDjvyOM5GVH4wv4dI1mHVL3TrbUdM1BbFbqOymliuGZEkXZbq5kZ9r42KxORnOK1PGHhh/FH9ix71WCy1Jbqf988TlBFIvyMnIbLqQQRjGc5qZ/BOgvoyaYbOQQJcfalkW6lWcT/8APXzw3mb+SN27JHGcVK637/8AyP8AwSna6t2/z/4Bydp4/wBdvdH0/wCyQWT30/iB9Ike5tJ7VCgjd/M8pyZEbAX5WJ7jIzkdLqGqatonhUza5qelw6kZzFFPDYzSxyZY7AturmR3K/wKx5zg4FT2vgnQbOZJYLSUOl2t6u+6lcCcIY/MwzEbirHJ/iPJyeavazoWn6/Zx22qQvIkUqzRPFM8MkTjoySIQynkjII4JHen0+78lf8AG/3i6/f+bt+FvuMnwJ4kufEujXc1+qiezvpbRnW0ktRJtwQ3lSkvGSGHysc5qbxVrV9ph0qx0hbcX2rXgtYprpGeKHEbyMzKpUt8sZAXcuSRzV3R/D2m6Abn+yopYvtUgkmD3EkgZwMbsOxwxAGSOWPJyafrOh6fr9mltqkLyJHKs0TxTPFJE46MkiEMp5IyCOCR0JofT5f8EF1+f/A+45G28Y67De29jqSadJOfEQ0mWS3idVaL7L529QXJViexJAHHPWjWPH95p2m3zxW8ck417+yLZo7aWcINisXaOPLuR83yrjJwOOtaGn+ArJLfVrPUYt1rc6oL+1NvcyxyxERRqG8xSrh9ysSQ2Tu5Jya0F8E+HV0W40ldMRbK5n+0yRiRwfO4/eBs7lfKg7gQc89TmhXsr9l/7bf8pfeHXTu//brfmvuI/BuuahrdhdnVbWSKS2uTDHO2nz2S3SbVYSLFN86jLFcEnlTzzVjxTfaxYaUkugWi3EzTBZnaIy/Z4sEtIIgytLjAGxWBOeM4wbmlaRbaNbNBZvdyKzbi13ezXL5/3pWZse2cUmraNaa1bpDem6VY33q1reS2zg4x9+Jlbv0ziiWuwLQ5HUPHs1j4KstQtbi31O9vNQGniaDTbhVhkJbcWtgWm3KFOUyCTgZGc0+08Zai/ha9udSePTrqC8FrbXVzo11Gt5lVYNHaMRMx5ZdgYklCQcV0DeENCbw8dEewDWJfzSrSuZDJu3eZ5hO/zN3O/duzzmo5PBejT6WthcLfTxJOLiOSbU7mSaOQDAZJmkMiHBI+VhwSO5o7/wBdv+D949On9b/8D7iv4E8SXPiXRrua/VRPZ30tozraSWok24IbypSXjJDD5WOc1Y8W63eaPZ2MelRQPfalex2UDXO7yomYMS7heSAFPAIycDIzmrej+HtN0A3P9lRSxfapBJMHuJJAzgY3YdjhiAMkcseTk1Lq+jafr2mvYatbLcW7kNtJKlWByGVgQVYHkEEEdqH0+V/1+8S0v8/+B9xiX+r65oTaDb6jPp97NqWrC0llgtHgURGKR+FMrkNlBySRjtUE3i6ZdL1qaS7srKSz1VrC1ke1kud+FQhREjB5HJZvlUg8dODWnJ4O0ebSBp04vpoVnFwkkup3LzxyDoyzGQyLj2YdT6mmHwL4d/sttPj08w25u/toMFxLHIk+MeYsisHViByQRnJz1OUut/6+H/J/eD6W/rf/ADX3HNaf4+1XUdDt4oIrb+1rnW30mOeaymgiXahkMrQOwkHyKfkLA57gVQtNa8QaJqupW8A0241HUfFUdlNI6SJDtNhG29VDEqfkB2kt3Gedw7L/AIQPw99juLUWcwjuJ0uXIvZ9yzKMCVG37kf1ZSCepJqS08FeH7Exm1sCrR3o1AMZ5GJuPL8vzCSxLErwc5yeTk81UdHr5f8Att/yf3/cd/n+tvzX3EGoapq2ieFTNrmp6XDqRnMUU8NjNLHJljsC26uZHcr/AAKx5zg4Fc/p/j7VdR0O3igitv7WudbfSY55rKaCJdqGQytA7CQfIp+QsDnuBXa6zoWn6/Zx22qQvIkUqzRPFM8MkTjoySIQynkjII4JHes3/hA/D32O4tRZzCO4nS5ci9n3LMowJUbfuR/VlIJ6kmkt9f62/wCD94PbT+t/+AczpeqXuiQ+L5tQ1Gwt9QOtxxLOLKWZJXNrb4CW6v5jMR0RWJ68nFdF4E8SXPiXRrua/VRPZ30tozraSWok24IbypSXjJDD5WOc1J/wgXhwafLZpYyJHLdretIl3MsonChPNEofer7RgsGBOTnOTm/o/h7TdANz/ZUUsX2qQSTB7iSQM4GN2HY4YgDJHLHk5NNefZL8F/wQeu39b/8AANOiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBnVxnxEvj/Y9zpjxXy20tnLLNPb2k0ithTtj3opC5PLEkfKMd8js6p6pfaZYWLNrd1aW1rL+6Y3cioj5B+X5uDkZ4qZK6sVF2dyPSZzP4ctJrVCWNspRJ1aLJ28A5XKjPfH4GmaJf6lqNvLJqmlf2YVcokZn8xnwSCfujAz0POevTBN2zuLW6s4ptPlhmtmX908DBkK+xHGPpU1aSd5NmcVaKRi/ES91W38M/ZdDgaS4v5BaFhGj7VcFTgNLHhsHIOSOOQByI/hx/ac/h+bUNWijha/m+0RKlusWYyqhD8ssgxsVcAkEYI56nq5reC42faIY5fLbem9Q21sEZGehwSPxNVbrUNP0f7BbXDrbi7mFpaxrGcM+1mCjAwBtRuuBxXZ9aSwv1dRV29+vp+QON2n2/r8jF8aX2pWp0qDSr9rE3U8qyyJEjsVW3lkAG8EA5Qc4rA07xTqJ0eZdV1S6e6ulsfsn2K2hEplni3mKMONgHyk5kzjnJ6V6FPaW900ZubeKYxklDIgbYSCpIz0yCR9CRVWbQdIuLOS1uNKspbaRUV4Xt0ZGCcICpGCF7enataOKoRpqE4X87K+9/y0sJxbd0+555eatrmpfD3Up31fU7C607WFtTIv2dZnj86IYkMalMgOfuEA45yMiul8QyavpFpoVnY63PJPe6qtvLd3UELuY2jkYjaiKv8IwQO3OeQd6LQtIhguIYdKso4rpBHPGlugWZQNoVhj5gBwAe3FFroWkWNtDb2Wl2VvBBL50UUNuiLHJgjeoAwGwSMjnmrnjKL2grJt2suqX5Ppr+AKLSfz/4BTl0vUk8Oy203iG8e4RncXqwW4kZOSEZTGUPGASFGcdqw9O1KO3+D+i6jeanLpA/s+3kaTT7eEM7MgxGkbRsmWJwFVeuAMV1eoanZafJaQ38oQ384tYFKFvMkKs23gHHyq3J44qK+0XRbjR0stQ0uxn061UNHbS2yPFEFGBtQjAwMgYHSuaniYWtVWnMm7Jed1tbqtNkVyu6t5/j/wAMU/CNvrcWimTxJezXN1cSGVIp0iD20Z+7GxjVVZgOSQMZJA4GTJ4p1NdN0lALi7guLqdLe2+xRxvNJI3IVPMGwEgHluAAad4Yi0D+woL3wpZ2ltp18i3EZtbYQLIGAwxXAOcY6jNX77T7PVLN7TU7SC8tnxuhuIhIjYORlSCDzUyqQeJ55LS+1kvw2+X4ij8J5xD4l8QXemQ241G5s511e6s5Jpobd5zHHbPKobYDFuBAGVGOPqKZB4n8QyppsMutLHJfXlgrzfZowEWe1d2RQR/eUEE5OepI4rt9Ps/DUl1erp2n2CzWMwhuSloqGNxCMDO0ZxHIBkZGGI9RWY+leHvGlnZy6SLV7CzvUaQrZ5hu1jieMIpICugEmAy7l4IHfHpxxuElKzppK38q9fu6Ihxl37/8D7iz4Zv725XXbO9vGv1029a2ivHRFaUeUjkMEAXKlypIA6dM5qj4Utp7r4Q6Iltf3Fg66fG3m26RMxAT7pEiMuD9M+9dZaWNpp9mlpYWsNtbRjCQwxhEUegUcCqs91pehw2FjIIrSK6lFnaQRxHYW2swQBRhRtRuuBxXnyxMdVCNruL2XRNbbat7bGkVZ3fS5zGm6x9l+E/h2Zppra6v7W1igXTbeEO8roG2Row8pc4bqAoHpVCx8UazcaLFaS3c9tcza+2lm9uUgM0MYQvkhMxeYcbBgFckcE8V1uuHw7pfh+O2121tE0cFIfLltd9vEB93cNpWNBj7zYUccjirA8O6GbWe3Gj6f9nuVQTRi1TZKFGFDDGGAHAz0roji8NaTlDVyb2Wn9dtvvI5Wklfp/n/AMA4rT9S/suLxNG2r3dzdT65HaQXFpFA1xNL9mh+QBh5QfCkEkBRg8Cug8Catfarpd+NUad5rPUJbYNciISlVCkb/K/d7hux8vHFazeH9GfT5LBtIsGs5SpktzbJ5blQApK4wcBVA9AB6VNZaVp+mtI2nWFtaGUKJDBCqbwowucDnA4HoKiviqNWnKKj7ztrZdEl02XkPld1/Xf/AIBbooorzCwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAM6sPxSNPW0tJ9R1oaKbe48yC6Lxr8+x1x+8BU5Vm46+lblVNR1Sz0qBZb6UoJH2RokbSPI3XaqKCzHAJwAeAaTGit4ZvrzUvDVlealH5dzNHucbCm7k4baeRkYOO2a1KhtLqO9tUuIBIEfoJYmiYduVYAj8RU1U9yVsY/j25mbRYtIs7O4vp9UlEL29q6JK0A5mKl3RR8mVyWHLDvXnsuoCHQ/D2i639r0dtB8RLBIZ5UEsNobedoXZ0LKB5RClwxxsY5BGR7XRUrR/NP7rf182V0+T/FNf16I5D4e3Mlza6x9nvLi/0ePUGTS7q4nadpYfLQsVlYkyIJC4DEnOOpFaHiy78Q2llA3ha0+0ztJiVfssc+Fx1w9zABz3DN9O9b9FN6pfL8BLQ5/wnd+Iru1uG8U2n2WVXAiH2WODK454S6nzz6lfoetU/iJeXFloNo63dxY2D30Sald2pKyQWxzuYMBlBnaCwwVBJyMZrrKp6rq1lolgbzUpTHCGVBsjaR3ZjhVVFBZmJOAACTQ+ny/r5jWh5x4luPDv9k+GZdG8QyXOlx+IFM1+uqvd+UPs0xb9+7OVAHU5+UEnI6jR8PQLrfhvX4xqOpXOjQXznSbxNSnWSSNYlJInVw8iCQuASxBx3wK7XSdXstbsftemytJFvaNg8bRujqcFWRwGVh3BANXaTWjXf/gf5aeoJq6fb/g/5nl4u9Rv/h78NQdWv4JtRntFu7mGciWZWtJGYMxznJAznnPIwQCK+qXc+iXl/pUmsajb6BFrdtFd3c9/K8lrbvbbyPtDMZEVpNo3bvlDHBFesUVUneTfd3/LT8PxEtEl5W/PX8TyBGhf4f8AxEOjXV5eWf27icyPJK8H2a33kO3zONm7DZJIwQTnNdj4zuQ3hm00jR7OW+XVCsK29i8aM1qADKULuigeX8oO4feGK64gEEEZB6g1R0nRbDQrZ7bSYPs1u8hkEKuxjjJ6hFJwi8fdXAzk45NJ67+X4f5h5+v4nK+A9Y/s3wrf6brUFxp7eHGZHjuiryJabd8LN5ZYH93hflJyUPfiqnjzVNO1PSvBmqxag8OmXGrRXAvEJi2wtbTNvJIyg2nknBUZORjI7+4gjurWW3m3GOVCj7WKnBGDgjBH1HNJa2sFlZw2tpEsMECLHFGgwEUDAA9gKN3d+X4b/fp+IbKy63/E5HwLcrc6brmbyW/0GO+dNPurudp/Nt/LQuRK5JkQOZAGJOQOpFW/htv/AOFc6Pu8zy/JPkeb97yN7eVn/tnsra1bRrDXLRbXVYPtNsHDtCzsEkx2dQQHXn7rZU8ccCrwGBgcCjp934f1/Vxf8EKKKKBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGdXKeL7F5dY0a+lW+ewtjMlyNPEhlXeo2sPL+fGVIJTn5vTNdXVHU9Qn09EaDS7u/BBLG2eFfLA9fMkT9M9KTGir4WW9XQYxqJuC/mSGL7T/rfJ3ny9/fds25zz685rYqppWoDVdKt75bee2WdN6xXAAdR2yASPfr3q3VPfUlbGT41tLm6GjMIJbrTIdQV9StokMhkh8twuUGS6iQxkqAemccV57rFlHbS2rXGl3kXh2fxXG9nYfZpFYxfYnEu2ADeEZw52Y+b5vlO7n2S6u7extnuL24it4ExulmcIq845J4HNZF/eeGdRtdP1O+1Gwktra6M1ncm8VY/OVHBwwYBiF8zI56E44qdnfzX5r/ACK3T9Gvwf8AmZnw9sGsrXWGtrGXTdJuNQaTTLKWEwmKHy0BIiIBjDOHYIQMZ6DNaHiy08Q3dlAvha7+zTrJmVvtUcGVx0y9tODz2Cr9e1SL4y8OyXmlWsGr21xJrBlFg1u/mpOYxlwHXK8A9yPaprDxNo2pK7WmoRMFvXsPnzHvnTJaNd2NxwCflyCASOlN62X9aaCWmv8AXUqeE7TxFaWtwvim7+1Ss4MR+1Rz4XHPKWsGOfUN9R0qv40t5xNoOqxW013BpWpC4uYIIjJIY2hkj3qigsxUyBsAZwDjJ4rV1HUboWM8nh6Kx1G5t5DHLFPemFUIGSCyRyEMMj5SvfqKyIPiHodv4J0nxH4jvLbRYtThjkSKefdhnx8oOAWxuGSBwOTgZovfXtb/AIH3h5d7/wDBOZ1C304+DfGms+KtD1K70LU76O5GnRQvHcSRIkMfmFCUdMtHvIJBCrkgdK9OTHlrtGBgYB7Vh33ibwvN4bOp3Or6PcaWz7Unlu4jbySKchd5O3duX8CPapdP8R2snhnTtW1mWz0v7bCsmx72OSMMULlVlB2vhQTkcEAnpT2Vu1vysvyDf8f6/r9DZorIn1qS90Iaj4SOm6yrHKsb/ZCyjOSJESTJGOmPxFU7Dxpp8vgXTvEurzWmkQ31ukqrd3aoiuy5CeY20E/gPpSeib7Atdjo6KytN12O48J2uuaqbbTo5bZLiYm7SSKEEA/64fKy8/eHBpYvFGgTaPJq8OuabJpsZ2vepdxmFD6F87R1Hem9HZgtVc1KKoRa7pE+jnV4dUspNNVSxvUuEMIA6nfnbgfWqcnjHw4mhtq6a/pL2Acxrdfb4hC0mPueZu259s1LdtxrU26KytM1yO58K2etap9m05J7dJpM3aSxRbgOBKPlYc8MOD2qUa/o5sorwarYm1mcxxTi5TZIwBJUNnBICscD0PpVNWdmJaq6NCiqemaxput2f2vRtRtNQttxXzrSdZUyOo3KSM1cpAFFFZuua5b6DZxTTxTXEtxMtvbW1uFMk8rZwi7iBnAJySAACSQBQBpUViWXi3S7jR7rUL6YaTHYzG3vU1GRIjaycfK7BinO5SCGIIYYJzW2DkZHIoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAM6szWba4vktrKKMm1nlxePkcRAElcHk7iApx2JrTrH8Qa4+iraLFDA8l3MYke6uPIhQ7S3zPtbBOMAYOTQBsAYGB0oqjoupNq+jW1+1u1uZl3eWW3Y5IyDxkHGQe4INXqHoC2M7xXpd5fXGiXtlF9qGl6gLqW0DBTMvlunyliBuUuGGSB8vXpXB69pl/Z6vZ6rd6MT/aXiyG6g0rzIjJhLJ0yTu8sOxjLD5sfdywPT0vxDr9j4a0S41LU7iGGOJGKCWUR+a4UkIpPVjg4FUtC1vSfGCyzwf2fejTroCJ4pluNj7B84OPlPzOoPcAnvito4er7P2yj7qe/wA1/kgcls+qa/B/5nFDwDrWseILrVJkfQ2vZLm6t2Vo5HsJc2flFlVtrMxt3ZgpIwSC3NaN14U1HSrWzbS7Ca9j0vXYryOBJYxLcQraCEkF2Vd2ST8xGcH1Fdfr2vJoMNozWV1ey3lytrDDa+XuZyrN1dlUDCHvSPc6tf6OZrKD+xrsMfk1KFbj5R7QzY57Hf8AhRGjJRjLRLRL5NPbfpbYG7uz8/xv/wAEzfCen6rb2WuyavZLaT3+ozXEUSzCT920aBeR3+XB9we2DWO3hjVz8EdM0P7L/wATSzt7NntvMTLPDJHIyBs7cnYQDnGT1rc0nxQ0/gHTde1OJxNd2ySOtnaTTBXZc/cQMwX37etFr4vs7Xwno+qa9dw+ZqMKsj2VvM6TMYzIfLTaXxtBIBGfxrR4SsrxUXo1HTXWN9v1EpLR97v7zShubnVNEnabTLrTppEdBbXTxF+mAcxu64P+9XnuqafeaN4G+GthfaYbq9sb60jlsg8ZJkS0lyoJOwkEcHIGQOR1rtl8ZaPcabPeWE891HDtBNvZTzfeXcrBUQlkI/iAI96qx+IdKPhXQNY8UzWDPdGJ7eeKBzF57xsVMQddykruAzg846nFL6rXWvI949HfS7/IOZNfKX4qwnhXSb+2i1++v7T7DJq981zFZF1ZoV8pIxuKkrvYoWO0kfN1NSeEtJvdM+GWl6TfQ+Ve2+mpBJFvVtrhMEZBwee+cVdt/FWlXVhc3cD3TLayCOaE2M4nRiAQDCU8zkEEfLyKB4r0b+xJNWa7MdpHKYXMsMiSCTO3y/LZQ+/PG3GTnpUPC1nFw5H0Wz7aL11KUrNP5nKv4X1dPhf4Ssjp6XV9ogsprrTZJUAnMUe1owxym4E7hk4JQcjrWrrl74lv/DqTaLod5p90bxBPDI1o10IcfNJFmRod+cAb26A8dAdWTxLZDR5NRSLUBGrGPa2l3PmBsZyYvL37ffbj3qHT/EKnwbp2rajcWsk15BGyG2WQRzyOuVEalTJg+m0tjtxVyw9aV5OL1l26/wBIhNJJeVvl/TOHtfCniNNBuEu9NnvprbxCurrBez2wN/EVyUzHhFkVvmwVVdyjBI5r0K2ubrVNHumn0i60yZ1dFgunhLt8uAcxO647fezxVC38Y6XbaNBc6zqUCTNcCzl2QSxhbgqW8vYw3qcDjdjPGPvAVp6TrlhraTNp8kpa3fy5op4JIJI2wCAySKrDIIIyOaiphqsYNSi+Xa9nbZL9EUpWkpdf+C3+dzkbTw1q1t4J8DRva+ZdaB9nkvLASJlytu0RCtnaWVmDD5gDt69KoTeDtT1PXE1G70iNLW58TRai9jM8bmGKO0MXmOASpYuFOFLHoc9cem0Vm5Ny5vO/4p/ohJWjy+Vvz/zMHRNLuLLxR4ju5YBHBfXEMkLgj94FgRWOByOQRz6UnizQL7xBZQQ6dqf9nPFJvZ91yu4Yxj/R7iE/mSPbvW/RUW0sVc5/wn4fvvD9rcRajqn9otK4ZW3XTbBjp/pFxMfyIHtTfFunX1xJo+p6Xbm7uNIvvtJtFdVadGieJ1UsQu4CTcNxAyMZGc10VFPUS00/rU85v4LnSPCPirXtZ8NQ6nJql5HcDQruWLBRRFEiufnQv8m/A3ZOFGTg16Kn3F+Xbx09KWijpb+trAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGdWB4m0S51aWykhgs76G3L+bp9+xWGbcuA2QrYZecfKfvHpW/WLrep3dvqWnaZpr28FxfGQie6iaRFCKCQFDLljn+8OATzikwH6Bo8uneHI9N1J0uuHDISXRUZiREC3LKqnbz1A6DpUmieHtN8PW8sWlweUJnLuxOWPJwM+gBwB/UklnhnWjr2hpdyLGsyyyQSiJtyb43KEqfQ4yPY1rVTAqeKfD/APwkVpa25kkSOO5WSUJdzQbkXnH7sjJ3BevTkjBAqXwvoS+HfD9vYebLNKF3zySXEku+UjLsC5JALZOOByTjk1lfEXxHqXhrwq9zo9hcXM8ssUAnh8ki33yom4iR1yTu+XAIzjdgZNO0/Wp9F0W3/t1dbnvby7+z21vqAszcysVztX7OREFwrNliCMHJ6Vt9YqOj7G/up7ef9MTWqZL420C91+x01NOEbSWd+l06PeS2u9QjrgSxKWU5ccgetaOiWt7b6N9mv7eO3kUsqBdRlvcqecmWVVcnJPBzgY57DHuPiHptrGizWGpC8Oorpr2SwK80czRmVchWIKlQCGUkc84wcb2kalJquni5m06802Te6NbXqoJFKsRn5GZSDjIIJBFN4icqKpdF6+ve3XsNq0k/66/8EpeG9GuNH8E6fo9y8TXFtZrA7RklCwXGQSAcfhWTB4Rv4/DPhbTmmtvO0eDy7hgzbWP2V4fl+XJG5geccflW74k1oeHvDV9qpha4NrEWSFesj9FX2yxAz71zmq6jrfhuDw8+r61HJJfauEv3EMccMUX2eV2jTIJVAUB3Mxbr82OBSxlRTk/5nf5u6/Vi5dF5X/z/AENDw34bvNHt7pLmSBjNZWtuvlsThoodjE5A4z09vSoLXwpfQ+GfB+nPLbmbQ5bd7lgzbXEcDxnZxzywxnHFdFpmorqlqbmK3nhiLERtOgUyr2cDOQp7bgD7dKj1zULjTNKluLTT7u/kAI8u0MW9Bg/P+9dFIHpnPtTnjaqbm+v6Jr8mKMFZRXmvvMHV/DmtzXGqz6Tdwxfbru3lMYuHgaWJIwrxmVFLREkZ3KCcDHGeM6z8E6zaaXPHFLaC5i1ddVszNdTXCu2wK0UrON+OoD5Y9DgYxV6x8Zw6d4G8MajqTX+qzaykEUcsNmqyzSSRGQM0SsQmQpzgkAnrjJG1oPiGPXGvYmsLzTruxlEVxa3gTehKhlOY2ZSCGB4Y1ssdWgnTVtP0svnp+YuVSSb/AK3/AOCWLQ6ndadMuq21pa3DBlVLa5aZMY4JZkQ5z2xWBbeFL218K+FbVZbdtQ8PiFtpZvJmZYWiYbsZAw5IO08gcVo+MdW1LQvCuoappNtaTvZ2stw4uZWUAIhbgKp3ZxjGV+tX01Bl8PLqUkEkzi1E7Q2ybnc7N21FzyT0AzXNHEygpcui3/Br12uU43su9/0v+hzP/CI6ncawmq3UtolxJrMV/NDG7MkcUdu0IVWKgsxyCSQo5x2539O0uaz17WL2VozFfSRNGFJ3ALGFOePUe9V9S8TjT/A0niM6fdIRaLOljcJ5cwdgNsbjna24hT6Gqc2t3PhHS7BvE891q19ql6LdEsLRdsUjIzCNFHzbBsPLFjk5JA+7dTFVanuy7KPyurL8EFk9f67/AKnU0VkaD4hj1xr2JrC8067sZRFcWt4E3oSoZTmNmUghgeGNQ+MdW1LQvCuoappNtaTvZ2stw4uZWUAIhbgKp3ZxjGV+tccnyq5UU5OyN2ise6XVNU8O20+k362F+0aTqWhEkUhK52Op52En+Flbgc9QadnqOo+K/Blnqei3J0i+kG8xSxrMgkUlXikBAJTcCMqVPAIPY1JcrafT+v6/4YlNNJrqdJRXP6d4nj1LwRFrjhLCSaFsxTtxHMCVKZ43YcEcda1dLWddNhN3PLPM6h2aZFVlJGduFAAx+fvRbcL7FuisTxd4ij8L+G7nUWinmlC7LeOG1kn3zEEIpEYJALYGTgZIGckVD4P8THxRZ3lyIpkiiuWihaWxmtt6qAC2JAM/OH6dOAeQaS1uN6WOhorM13XrfQLOGWeGe5luZ1t7a2t1BknlbJCruIUcAnLEAAEkiuZ0zxzJGmu3GsW18Gi1eOxstO8mPz97QQsIhtO0nczncWK453YFC12/rb/ND/r+vuO5orlZfH+nwaWbi4sL6K7W+GnHTnEQmFwyh1Td5nlcqQQd+05Azk4q7e+KU07Rra8v9Kv4Lm6nFtb6aRE1xLKc4UbZDH0BOS+AASSKP6/r7xG7RXDaZ45kjTXbjWLa+DRavHY2WneTH5+9oIWEQ2naTuZzuLFcc7sCul0PXYtcguSltcWdxaTm3ubW6C+ZC+0NglGZTlWU5ViMGnb+vu/zQPQ1KKzNe1628PaelzdRzztLKsEFvbJvknlb7qKMgZPPJIAAJJAFVH8Ui2sLeXUdI1Cyurq5FrbWEphaaZ8FuCkjJjaGOSwwFOaQG9RXOf2mfE2m38Gn3upaFfafP5dyixwGaJtgYKd6yIVZWU5XP1HIql4a8Wt/whHhG71tpbm91xYYDLHGozK0TSFmAwAMIeg6kcULX8Px2D/g/gdhRXK6l8QNP07eosNRupUvpbERW8aFmkjh85j8zgBdo6kjn0qqvxQ0l4IJF0/VWNzcw20Ea2wLyGaEyxuFDZClVI5wQeoA5o3/AA/Hb7w/4P4bnaUVz1l4sN9aX7RaFqi3+nzLDNpriDzssoZSGEvlEFWBzv8ArzV3QNeh8QWM08NtcWklvcPbT21yE8yKRDyp2MynqDkEjBo3DY1KK5nxjrdxolx4eaK6S1t7nVRDdu4XaYfIlc5LfdGUByMdOtW38X6Naacl/rF7Do9rNIUt5dTmS3E4H8S7mzg9QDg45xihaq/9dP8AMHo0v66/5G3RXJa341hbwhqms+DL3R9aGnW8s0zJfCRY9iFwMRg5Jx0JX610thO11pttcSAB5oUdgvQEgHijv5fr/wAMHbz/AELFFct431+70CTw89oZmS71ZLaeKCESvMhhlbYBg4+ZV54xjkgZqxZeLDfWl+0Whaot/p8ywzaa4g87LKGUhhL5RBVgc7/rzQtV/Xl/mNq39ev+R0NFcq3xA0+PRRfS2N9HOb86aLB/KE32kZ/dlvM8ocDIJfB45yQKTxH40vPD/heLVz4X1KV3njhe0ae3R4d8ixgswkKnJbjaW5xnaMkH9ff/AMOLyOrorLGr3f8AYpvn0DUkuN2Bp5a3M55xnIlMeO/L0aBr0PiCxmnhtri0kt7h7ae2uQnmRSIeVOxmU9QcgkYNAGpRXM+MdbuNEuPDzRXSWtvc6qIbt3C7TD5ErnJb7oygORjp1q2/i/RrTTkv9YvYdHtZpClvLqcyW4nA/iXc2cHqAcHHOMULVX/rp/mD0aX9df8AI26K5e8+Inh2G2tZ9NvU1tbq8WyQaRIl0VlZGcBtrcZCH6dTgZI0dB8Qx6417E1headd2MoiuLW8Cb0JUMpzGzKQQwPDGj+v6+8DXorC8Y6tqWheFdQ1TSba0neztZbhxcysoARC3AVTuzjGMr9a1bCdrrTba4kADzQo7BegJAPFC1v5f1+gPS3n/X6liiiigAooooAKKKKACiiigAooooAKKKKACiiigDOrK1/SZNZsVtk/s9l37mTULH7VGfTC71wR65NU/GF7qem6St5p13FAqTwI6mDezb5kQ4YnAGGP8J+oqTWbm9n1/T9GsbySxE8M1zNcRIjOFQooVd6svJkBJIPA980b/wBfMexe0XSYdE0qOygZpArM7yMADI7MWZiBwMkk4HA6VfrH8L6lcanope9Ktc29xNbSyKMCQxyMm4DtnGcDua2KbEQ+J9C/4STQm037R9m3TwTeZs3/AOqmSTGMjrsx14znmjXtC/thtPuIbj7Ne6bc/abaUpvUNsZGDLkZUq7Dgg9Oa16KQHHp4Dd9Sh1O71QS339sJqlw6W+xJNkDQLGi7iVAUg5JYkg+vHYVm69PqNvo80mkWtvczqp3JcXbW4C4OSHWNzu9Bt/GuC1fXNbg+B+iX+gb3a8trJZbi+1JvtKLK8S/6xYjvY7yC/ykfeAJ4o6NLy/HT9BvVq/9W/4c7zxJoq+IfDd9pTTNbm6iKpMoyY36q2O+GAOPasLUfDlz430rTbfxZYx2b6dfedcQgrNDeAROhMbAhlU+ZkFgGBXp0NNln1Hwd8PNSvHs1F9FuaGF9XuNRUu2FTMs4VwNxGVAwBnHWrk4uvCfhWQx3k+ratcSKkcl9KSJrmQhF+UcRpnB2oAAAT1ySO1/u+/+v67K/wCv3Groen3mlad9jvtSfURG5EE0seJBF/Crtk72HTfxnjIzkm7cRfaLWWHO3zEK5xnGRivPNR8U6pfaN4RuoUaPUm1z7FqFnbzGNDKkU6yRk5/1e9Q3Ofl2nBOKt614ovb74c+MC8LaVq2jwTwyi2uS4R/JEivHKFUkbXUg4Ug9qTXMmv66f5lRTUkl/Wr/AMjSt/BXkaB4T037fu/4RySGTzPJx9o8uB4sY3fLnfnqcYx71r6do32DWtX1Dz/M/tKWOTy9mPL2RqmM55ztz2rkvFM9t4KsPDUy6nfW1idYVruW61Ce4LJ9nmJUtIzMVyqnZ0yBgZrtNMurq9tPPvLI2W9iY4mk3Ps7FgBhWP8AdBOPXsKfvXfn+NkQto+n4XZn+LtG1HxD4dutJ03ULWwW9hkt7iS4s2uD5bqVO0CRMNz1OR7VJp2naxbeG3sLvVbV71YjFb3lrYmJYvlwrGN5H3EHnqAemBWN8QtbXQD4cvZ757KzGrqLp1cqGi+zzMVYD7wyAcc5IHethrZvEmjkatbXmnI0m+JLbUJYJto+6XaIqVJ7puI6Z56R9mT+/wCS/wCCU9Gr+v8AX3EepeHrjWPA0mhalqTTXktosUmoLEIy0wAxLsHA+YBto47VUOl6n4ji0ebXIBpd5o+oi5dY2WaK62xOmY2BBVT5mfmAYbSNvQ1V8KeIksfhn4dvdXbUryW4sot0kFncXsjtsyS3lq7fifzrT/4TTS/sf2n7Lrnl+Z5eP7Avt+cZ+55O7HvjHbNaS0k/J/kxdLA3hDTbu+1eTWba11S21OaKY2t3bLIkZjjCDhsgnjOcDGara14OE3hG78PeE/7L8P2l7HLFcKmmb1KyIVYqqSRgNz1OenSqur+K31JdLsPD73+nzanqAtGurvTJbd4UETysyLPGAzER7QSCAW5zjFN0sahr0Gt6He6veR32i34jt9Ut2WORwYkkRpFUCNyPMKlSu04B2g4xHLdNf10/zGm00/66/wCRpxp4j0Xw1HbIlpreogiGF4YvscMa7cBpN8kjYGOSuScjC9TTLPTtR8KeDLPTNFtjq99GNhllkWFDIxLPLISSQm4k4UMeQAO4bpPiK41H4exateobe8aF0lFvGZAkyFkYqOfl3KSCeAOtbWkw+RpVuN8kjOiuzSTtKSxAz8xJ4+nHpVPW9/6/r7yVZWsZ+k+H20bwUmiRXH2iZLd0aeRcebK+SzkdgWYnHbNX9IEq6TbxT20ts8UaxlJWVicADOVJGP19qwfiJ4yg8F+FpbtnQXdxmC0VriCLEhGFb966gqCRnGSByRjJDPh14rk8YaRe6ifMMAvGigZ5raT5VAGMwOwzkFjn+9xlcGhO7f8AX9bg1ZL+v62NHxT4T0/xZBZQ6nbWc8drcCfbdWiThsAjaN3TJ2k+oGO9T+GfDmn+FdAttK0q2ggjiRRI0MKxec4UAyMF/iOOTUmvT6jb6PNJpFrb3M6qdyXF21uAuDkh1jc7vQbfxrldP8WT6X8PvBtxa2F3qs2si3t0W6vVaYF4Gk3PKVAcjZycDPJAzwVHrbuvve35DfRvs/w/4c6LxLoEuuR2MtleLZX2nXQurWZ4fNQNtZCHTcu5SrsOGB7g1zt98Mhq+kajb6zqcN9d3eqR6oks2no0McqxJHsaFiQ6YUjBIOG+9kbjBrnjzxLYaLqD2+haZHqOm39ta3KS6hJJCVmaPayMIgzZEmDkLt6/N0Oz4g8YzeE/DMGoeI7Wwtby4ultYol1H/Rw7ZwXnkjTaoAJJ2HGOAxpK39fL/gFa3/rz/4JFZeDr3TPDs2naY/hqyaeUtNHbeH/AC7WZCu0q0InyT77/bFQ2/w9ex8N6dZWGqLBfabftf20/wBlzbxu28GNYN/yxbZGUIHyPXNVLb4oi90+2fTdOtdSu5dYGkulhqSSwbzCZRIk20B1wBngEfNwSMHZvvE+p6VoVtLqWiRrq95e/YrawgvQ8cjkttbzSgwm1S5OzIA6E8VWv5fpb80T0t6/qn+plX3wyGr6RqNvrOpw313d6pHqiSzaejQxyrEkexoWJDphSMEg4b72RuPQeFPDo8N6dLbCDR4TJL5hGkaZ9hiPAGSm98njrmm3Wsatpvhq41DV7PSLK5hPKyaqy2ypx8zTtCCvX+4a5uH4oyXmh213pmlWl9cTX1xZMLfUg1uDDE0pdZhH86FVHIXPPTileyf9dl/kG9v67/8ABOp8TaA2v2NutveNY3tlcpd2lyIxII5VBHKnG5SGYEZBweCOtVLnw7qepW9jNqmq2j6rp159qtbm1sWiiX5GQq0bSsWBV2Bw46jpjnkr7x3qWsTaCbLT5rKU6van7Ol5/wAfEM1pLIqyEAAYOCy/MPlBGTxXSQ+JtX1LR9WS20i1j1bS7g213bPqLLEB5YcPHMISTlXUjKDnOcY5T91S8n+Vv+ANe80u6/O//BNHRfDr6Y2rXN3eC6vtWn864lSLy0XEaxqqJkkAKo6sSTk57DM/4QeaHwf4e0my1ONLzQHhktruW1Lxu6IyHdEHU4Ku3AcY45qLRPE32TwF4RaGO5vb3WYII7ZL263uzGEyM0s23nCqxLBck9ua29A199XuNTs7u0FnfaXcCC4jSXzUO5FkVkfAJBVx1AIORjubcbSce1vw2/MSldX7/qYcPw+mX5rnWmuJjqFzfPI1sBuM1uYSuA2AFzkewA96S1+HX2a802f+1N32Ge0m2/Z8b/Itngx97jdv3d8Yxz1rd8Sa8+hwWaWtoL2+1C6W0tIGl8tWcqzEs+DtUKjEkAnjgGuNj8d3Hhy28RXniNYo7g67FY29vPqAFvCzW0LY85wAkf33J2g8n5cnFSvyt+FkvzDl/G/43v8AkbWv+A5NZbU2i1OOL7feQXTQT2pmgkEcYQxSoHXzEbGcZXkDrjm54L8Jf8Ifa39pDPava3V0bqOG1shbrAzKA6gBiNuVyAAMDglutP8ABvi638XWF3NAbQyWVybaZrG8F1AzbVcGOUBdww46qCCCMcVQ+J+p63pfg55dASENLPDBLM920DxrJMifJtRuTuIzkFc5GSMUax26/rb/AIAfF8v+D/wTS8WeE7XxdDptvqDIbazvBcywvHuE48uRNnUbf9ZnPOMfjTYfCrS6PHp2tavqF6lvKxt54Lyezm8v+FZHikBkIHG44zwSM5Jq2trrmieEZ1t9Oga83szQ3HiG6uQE2/eFxLEzg8cLtx3zTNBtofEPws0WS5uNUCy6fDcCT+05UuCTGCN80RRnPPJ4B64pO0Yyfa39fgPdq/n/AF+I7WPBc8/he+0XQdWktI9RieG5l1SS51JtjIVPl+ZOCh5z1I9q2tBs9R0/SY7XV721vZYgESW1tWt12AAAFWkfJ465/Cuc8M65dWnwc0bV7me3nuP7OhkluNUvjBGSVGWkmKsR9cE1q+DPFcXi/RZr2JbZWgupLWQ2l0LmFmTHzJJtXcpBBzgVbVpSX9af8OTfRX/r+rFnXNC/tq60eb7R5P8AZl+t7jZu83Ecibeox/rM556dOaxdf8Byay2ptFqccX2+8gumgntTNBII4whilQOvmI2M4yvIHXHPY0VFl+v5f5Iq/wDl/X3nEaT4Dv8AQNEv9M0jUdIjtr26NwbeXRd0Ch0CyR+UsyjaSAQARgcHd1qaH4fpD8PpfDSagFd5/tMcyQYigkEolVY4t3yxKygBN3TjPeuxop/8D8Nhf8OctrvhfVfEfhqLT9U1axa5juVmcpp7i1uEGf3UsBmJdDnkbxkgemDJ4L8Jf8Ifa39pDPava3V0bqOG1shbrAzKA6gBiNuVyAAMDglutdLRQtL26/8AA/yQPX+vX/MwPFnhO18XQ6bb6gyG2s7wXMsLx7hOPLkTZ1G3/WZzzjH402Hwq0ujx6drWr6hepbysbeeC8ns5vL/AIVkeKQGQgcbjjPBIzknoaKNgepzE3gi183S2s76+VbDUVvmF5eT3hkIikj2BpZGKD95nj06d6sN4Q027vtXk1m2tdUttTmimNrd2yyJGY4wg4bIJ4znAxmt+ij+vy/yQf1/X3nL614OE3hG78PeE/7L8P2l7HLFcKmmb1KyIVYqqSRgNz1OenStbQbPUdP0mO11e9tb2WIBEltbVrddgAABVpHyeOufwrSoo7+YdgooooAKKKKACiiigAooooAKKKKACiiigAooooA5bxB4f/4SC3W3l1O9s4Ays0dsIsOysGUkvGx4KjoQPWi58P8A2qKzaTVL1b6zLeVqCiITYb7ykeXsIIxxt7A9RmqXjc3VvogvLS/ubYx3FupjhZVV906KcnG7oSMAgUeNzdW+iC8tL+5tjHcW6mOFlVX3TopycbuhIwCBQv1A2tL0230jTorK0DeXHk7nOWdiSWYnuSSST6mrdFFAGjRRRQAyaJZ4JInJCyKVJHXBGKw28Hae/gqy8MGa5+xWSWyRybl8wiBkZMnbjkxjPA74xW/RR/X3AUNc0e21/QrzSr7d5F3E0TlDhlz0YHsQcEH1FZI8Mya5Y21t45hsdUFlKxRFjDQXfy4WWSJ1O1xlvlDMAec9AM34sjVP+EHkGl3lvbRyXNvDcLNbtIZEknjTaCJFwPmO4EHcCRxnNW7fw9f6B4OubPSG8PWM+55X+yaK0Nsy7eR5Kzg7jj72/wDCpbtFt/1b+v60KSbaSGP8NNEjY/2VJc6RGt6l/DBp4jiit51haLcibCBkNkggglRkYJBkv/BYHgTX9G025ee/1iKYy3l843TTOmwO5RQAAAowqgAAYFV/DOl6Tr3wg0GLUdHsZrNtLgmSzli86KI+UCNokLHjJwSSfeqXhnVf7G+CPhyeO9t7KVrC3jhee1kudzFRhVhjIeRjzhVOa0kuVyXay+//AIZfgTGWkZfP9f1ZvPoU/iKz0/8A4Sq0t7abT7v7RHBZXRuIpcRtHhy8SEgiRsrjsOe1TQeHTpfha80jSr262vHKtp5s+02oZSFRHC7lVT90ncVHqABVXwJ4kufEujXc1+qiezvpbRnW0ktRJtwQ3lSkvGSGHysc5qfxZ4vsfB9lBc6jHvSeTy1H2u2t+cZ63EsYP0BJ9qiVrev62CO6t0/QYvhGK80HQLHXbue/m0cxyPM7BvtUiwtExk3Algwdie59akg0m98OaD9i8NIuoBZT5FvqV6Ykt4j/AMs0dYnbavRQwJA43YAFN8J+MbHxha3E+nR7Ft3CN/plrcZJGetvLIB9CQai8WeKJvDN1pzeRHNbXXnxlTkO0qxGSNVPQbtjDkHqKc9b36iVtPIZo3guw/4QbRdD8VaZpuqvp1skZWeBZ41cLgld6/rgGrP/AAgXg/7H9k/4RTRPs3meZ5P9nQ7N+Mbtu3GccZrh9c8San4ivfDctjaWsJi1m1VI53b93cNa3BlRmAyQgKYAAyc8jOR0kOo+Jb601/TZrvSFvtLlVTdCwlMM8TQh8eV54ZW+bGfMPTpSlLSUn/Wz/UtK7S7/APBX6GjN4E8PjTRaaTp1vohS4S6in0u3igeKZchZB8pUnBI+YEEEggg0iaBf6No09t4buY5NQvbgy3Wo6kdzlmGDKUjVQ7AKoCDYuAORjBwdK1640v4U+Dv7DsrSC61WG0tbaOQyG3ti8W4k5YuyqFOAWyTgbuc0njGPXoV8JrdXOnXmo/8ACQJ5UkdvJbQ4+zzdVLyNkcnhueBx1FSVpOPnb8v+B/SJi7xT8r/n/wAH/I63TtAt9I8Kx6Hp8kixRW5hWVzuckg5dj3Ykkn3NWtLiuLfTYYLuOGN4UEYEMhdSAMA5KjH0/U1xeo+KNesfDHiuO8msDqWktHDBeW0DRRnzUQq5jZ3IKl+m4g47Vd1ttO+HvgmRbC7g06e6mSEahfSglp5MKZ5nc/OwA3EseQuOmBS5t/OwW2R0up6XFqi2yzSzRi3nE6+UwG5gCBnIOQCc/UCpNNsIdL0u1sLXd5NrCsMe85YqowMnueK8ufxJP4m8PeDLi1vbK/1G28R/Y57mNw0MkscM6mUbOCGGHAGPvAZHUamuazf6n8M/HljrAtnu9KhuLWSe1jZIpgbdZAwVmYqcSAEbjyOtC2dv+H0Wv4oaV5RXf8Azf8Akz0OaJZ4JInJCyKVJHXBGKw4fB2nwaR4e05Jrkw+Hnie1Ysu5zHE0Q3/AC4PysScY5x9K5XxpBo/gzTPC1xp2lQ2Vlb60LiS3061Vd5FrPkhEABJwOfzOK7nRLm6vtLjvLx7VvtH72EWjb0WM8qN+cOcc7gADngdy11a6P8ALVfmyb6LzX56P8ihqPg7T9Th1iOeW5X+1pIpZWRlBieIKEZMqcEFFPORkenFLd+FV1LQk0/VNX1G8mhnFxBqDGKO4hkU5Vl8uNU45GCpBBIORW9VLVtH0zW7E2utadaahbht4hu4FlTcOh2sCM89ah+6rlIzf+EUE4086prOo6lLp98L2GW4ECsWCMgUiONV24cngA5xzVzX9BtfEOnra3Uk8DRSrPBcWz7JYJF+66nBGRzwQQQSCCK5bw9Hct8ALSPTTOl0dA2wG2JEiv5J27Mc7s4xjvWrrni228G+H9On1lGleZVibdeW0B3hMkk3EsYPTsSfarkuVtdn/X5INdPn/X4j77wd/aekwWmpa9qlzcWt2t5b37C3EsUijAwqxCMjBPDIeueoBFeD4eWEM7yPqWpTl7qS7IleL/WyQNDI3CA/MGzjoCBjA4rDn8cQeMo9JstJlmsbW+1VbS7mg1C2eTYIZJdiyW0z7CxjC5yGwTj1q9oumQ64niHw9qsk95a6RqYSxupJ3a4g3QRyDbMTv3oZGAfO7BAJPOVbdW/rT/gfdr0Dt/Xf/g/f6lt/hxphW38m/wBRt5bV7eSGaKSPcjwwNCh5Qg/K5JBBBIHGMg7GkeHLXSNPu7ZJ7i5lvpXmu7u4ZTLPIyhSx2gKPlVQAqgAAYFclf6ndax+z7qt3qUiTXR0q6imlQACVow6F8Dgbtuce9X/ABPo1voHwy1dvC5/4R9bawuLoJpcMUAeQREgnC5ByByuDx1pTdlJv/h/6sEI35Ev6t/w5rJ4O0+Lw5o+kRTXKDRViFldBl86No02Bvu7SSpIIK4OTxVvRdBt9E+2SRzT3V1fTefdXVywMkrbQoztAUAKqgAADj1yaj/srT9f8MWcGvWFtqcLQxyGO9hWZS+372GB55PPvVD4agD4X+HABgDTocAf7orSV1KV9/8AP/hiI2cU0aWvaBBr9tbpLcXFpPaTi4trq1ZRJBIARkbgynIZgQQQQTxWUPh/p39n3lvJqGpST3V8mo/bWnXz4rhUVA6ELgcIPlIK8kY28DqqKjb+v67L7iv6/r7yjpWn3GnWzR3erXmqOzbvOvFhVgPQCKNFx+GaZr2iW3iHSW0+9eVImlilLREBsxyLIvUHjKDPtmtGigBk0SzwSROSFkUqSOuCMVS0fRrfRfDllotq8r21napaxvIQXKqoUEkADOB6VoUUdGu4HMy+BbB/Cmk6FFeXtumjtFJZ3UbRmVHjBCsQyFGOCeCpHOcZAq94f8OReHmvjBfXl0L6f7TKLkocSFQGYbVB+bAJByAegA4rYop31b7/ANfog/r+vvYUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb1jw9p+vKiamLl0TBCRXk0KkggglUYAkEAgnpioL3wppeo2cNpem/lhh+6p1K45O7cCxEmWIIBBbJGBiqHj+0jk8PC5Yy+ZFc2wUCVgvNxGDlQdpPPUirnihNJlt7eHVNNg1W5lcpZ2cyK3mPjk/NkAADJbsPyK6fMfU17S1jsrVLeFpmROhmmeVzznlnJY/iamrP0HT59K8P2VhdXBuZreII8pJO4j684HTn0rQqnuJGjRRRSAKKKKAKmqaVZ6zYmz1KHzrcyRyFNxX5kcOpyCDwyg/hT7ue0jWOC9niiF03kRrJIFMrEE7V9TgE4HOAawvHWrNpvh4QQSXcdxqEq2qSWUEk00St/rJESNWYlUDEYHBArgzrU+raH4Tspr64h1DTfEq2MtzfW7xzMBBN5crRygMGeNkPzD7x6EcFL3tPNfjZfqv6Q9lfyb+5N/oepQWumeHvDsdqpjstL0+2EYMsuEhiRccux6ADqTWPY6T4Q8R+FLPT9Hnt7/AEnT3RbWTT79mNu6DA2zRvvVgDjIbODz1rmtT1K/u/hp8QLK/vW1JdLW5tIb50RHmX7OrkMEAXcrOVJAA46ZzXR+M9XvNK0XTEsLtNPa/vobOS+kRWFqrg5cBvl3EgKM5GWGQelVvq+tvx2/MNl23/Dc1tH8PaboBuf7Kili+1SCSYPcSSBnAxuw7HDEAZI5Y8nJqZda0t5TEmpWbSC4+yFBOpIm27vKxn7+3nb1xzXN+Lft+g/DTWm/t28u7hIj/p06RLLAjEBm/dIi/KpZgccfhWZ47hh8MaT4Rj0DSvOjsdWU21jagL5mLachR7n15P1NK+qv5L8bfgK172839yueiVR1TRNO1pbQapapcizuUu7fcT+7lT7rjHcZPtVTQNSjufDa6tc6vDeQyq07XAURRQqOqgEAqFwQd/zAg5x0GpbXMF7axXNnNHcW8yB4pYnDI6kZDAjggjuKez9BXujHbwz4d02NruS2ito4L59VaV52VUnKlWlJLYA2k8H5R6U/SJvDuqRahqeh3tnfQ3rgXdza3QlRmVAuCVYhSFx0x61gfFuznuvBGYNSurJVvLRXSBYiJQ1zEvzb0Y8ZyMYyeuRxW1e6Pfx+GZ7b/hJtUadd0n21obQykbfuFfI8vb/wDPvWbdoNvZf5L9PyLSbkrf1/TKt/B4Kh8BWdpqV1p0PhtY4o7Saa9CRgKB5RSYtncAoIYNnjOat6d4f0K40/T57OSbUbeG4F/Z3MuozXWXKFQ4kd2LLtY4GSvOcVX8ETtc/CvQp3WJHl0mF2WGJY0BMQJwigKo9gABXPaDqq6X8FPCyrdXtvdXlrbW1qLCOJ55ZWTIRPNBjBIU8vwADW0k1KSe6a/Fv9URF3in0sdbqel6AsV9Dqot4115hbzrPNt+0sY9gRQT97avReeM0ulaFLaJbf2tfNqk1i7CzuJI9kiIyhf3mDtd8ZG/avB6dScLwXdS+LvCmrWPimF7xIb+exkS/SAyPGuCBIIf3e4bsZXjjNXvAepNN8OdPvtTvfNWOFw15O2N8SOyrIzH1RQxbvnNRolf0+7ce7t6/5FvUPBmg6pdTXN5ZM0806XLSR3EkZ81IzGsgKsNrBGIBGD0PUAjP8Q6N4e0f4f6npE2pWug2eoxywve31xuzLKpBd3kcGRz1+ZsnHWuotrmC9tYrmzmjuLeZA8UsThkdSMhgRwQR3FSN90/Spl7qY09UzB0zThrGl6dda1e6frLW04vLG706J4IvuFVYDzX3cO3O7Bz04zU//AAjOnweH9R0jTohbW98s26Ms7xo0gO7au4bVySdqlRycYJzVD4bf8kx8O/8AYPh/9BFWPFmv33h+ygm07TP7ReSTYybbltoxnP8Ao9vMfzAHv2q6iSbiwjdNW6Ghoekw6D4f0/SLZmeGxto7dGfqwRQoJ9+KdqsWpzWezRbu0tLjcMyXdq1wm3uNqyRnPvu/Cszwn4gvvEFrcS6jpf8AZzROFVdt0u8Y6/6Rbwn8gR71F461ZtN8PCCCS7juNQlW1SSygkmmiVv9ZIiRqzEqgYjA4IFKd38XX9RRsloT6VpNp4f8H6Z4d1DUQcQLYpMsptnnYIfuYbcrEAkbWyME54rXlmttN09pbqdYLa2j3PNcS8Iqjlmdj6Dkk/WvJTrU+raH4Tspr64h1DTfEq2MtzfW7xzMBBN5crRygMGeNkPzD7x6EcHV1PUr+7+GnxAsr+9bUl0tbm0hvnREeZfs6uQwQBdys5UkADjpnNPWV3/XT/5IaV5Ri+v+bX6HZl/D3jfRXW2vLXVrHzR++sbvd5cikMCskbZRxwcggio5PDRtdC/srw5evpKSSlp7jBuJ3DZ3sJJGJ8wnHzvv+h4Ip+M9XvNK0XTEsLtNPa/vobOS+kRWFqrg5cBvl3EgKM5GWGQelV/Fv2/QfhprTf27eXdwkR/06dIllgRiAzfukRflUswOOPwqXs7f1t/wBRd7N+pZv9M0O7+HuqeHNL1G0srG3s5NPklWRZFsv3eDv+YcgEEhiDzk9c1XtLLTfG3hV4tY1+y160V3jkn0K6mtIWXbgxyeXcNu4JyC2MEcVmfEjQorL4awWWiXU2lWVrc2cS29nHFsdWuYlGd6N0zu4xk/e3DIrpL3R7+PwzPbf8JNqjTruk+2tDaGUjb9wr5Hl7f+AZ96JvSUn/XUcU3ypFGeXTPDng2GbQ/E2n6bYTOrQ3+tXcl9AysvCo8k6nBAGMPjg4HNang+xg0zwXpFjZ38WowW9pHHHeQ42TqF4dcEjB69T9apeCJ2ufhXoU7rEjy6TC7LDEsaAmIE4RQFUewAArntB1VdL+CnhZVur23ury1tra1FhHE88srJkInmgxgkKeX4ABrSScZSXmv1RMdYp+R6PRXH+AfEF3qPh3U5tfnlVtN1Ce3aa+MCyLGmGzIYf3WQDyV44rq7a5gvbWK5s5o7i3mQPFLE4ZHUjIYEcEEdxUefp+I/6+4Se7trV4VubiKFp5PKhEjhTI+Cdq56nAJwOwNJc31pZGEXl1Dbm4lEMIlkC+Y5BIRc9WIB4HPBrjfideT6evhi7tLOS+ng1kPHbREBpSLafCgn/PselbWlR2vifwiTqd1BrdpqKsZAYQsQU8GMKRkbSMfNlgQc4PAS1TfZ/ohvRpd1+rN+iuX8B6k03w50++1O981Y4XDXk7Y3xI7KsjMfVFDFu+c10dtcwXtrFc2c0dxbzIHilicMjqRkMCOCCO4qupK2INU1jTNDs/tetajaadbbgnnXc6xJuPQbmIGeOlT2t3b31pFdWU8VzbzKHimhcOjqehDDgj3FSN90/SuZ+G3/ACTHw7/2D4f/AEEUl1+X6/5DOnooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5rWNM0G8Ec/iCx06cIdkcl9DG23J6AsOMntVXVtO8I2OnW0euWei21lCxW3W8iiSNCeSEDDAJxnisr4kXOjW2io1/NYxX3n25gM7osuwTxltuecADJxWrrGu2A0SO7s9f0izSckQXl0VlhfrkLh1BP4np0NLpcfU17GK0gsYY9NjhjtAg8lbdQIwp5G0DjH0qesLwSqJ4J0tY4Gt0EAARySTyfm5A4b73QcHoK3aqWjJWxo0UUUhkF5eRWNuZ7jzPLB58uJpCPfCgnHvUkUsc8KTQuHjkUMjKchgehqO+x/Z9xlWceU3yqcE8HgVU8Peb/wAI9ZGaSOTMCFDGhUBdowOpycd+M+gprZie6Lz28Mk8c8kMbSxAiORlBZM9cHtnAzVS70HR9QaVr/SrG5abHmma2Ry+FZBnI5+VmXnsxHQ1fopDMm98Nabd+FLrw7BAthp1xbvbeXZIsQjRgQdgxtB5PanWmiKmjy6brF5NrsMuQ/8AaMMB3KQPkKxxopHHdc89a1KKA7GfZeH9H03S5dN07SbGzsZt3mW1vbpHG+4YbKqADkcGodM8OWemWcNqzzX0NrN5tmL4rM1p8u0LG5G7ABYAsS2GIzjitaigCjLo1i+n39nDbRW0eoeYbgwxIDIzjDOQQQzEd2BzjnNSaZp1tpGk2mm2KeXbWcKQQqTnCKAAM/QVaooAhurS2voDBe28VxEWVjHKgdcqQynB7ggEehAqVlV1KuAysMEEZBFLRQBFb2tvaWcdpawRQW0SCOOGNAqIoGAoUcAAcYqrPoWkXWjrpN1pdlNpqqqrZyW6NCAvQBCNuBjjjir9FG+4bbGHd+EdKnspbSyi/sqK4Kfav7NVLdrlFXaI3dV3BccZUqwAwCBkHQm0u1l0WTSo41gtHtzbrHEi4RCu3AUgrgDsQR7Vcooeqsxp2aaKumadbaRpNpptinl21nCkEKk5wigADP0FN1Sxn1Cz8i11S70t9wPn2ixM+PTEqOuPwz71cool724lpsUND0iDQNAsdJtJJZILKBYI3mILsFGATgAZ+gFX6KKbbbuwCo3t4ZJ455IY2liBEcjKCyZ64PbOBmpKKQFC70HR9QaVr/SrG5abHmma2Ry+FZBnI5+VmXnsxHQ1Be+GtNu/Cl14dggWw064t3tvLskWIRowIOwY2g8ntWtRQNNp3Mu00RU0eXTdYvJtdhlyH/tGGA7lIHyFY40UjjuueetSWXh/R9N0uXTdO0mxs7Gbd5ltb26RxvuGGyqgA5HBrQooeolpsZOneHLOw0k6ZK82oWKyB4YL8rMIFUgqikjJClQQWLMD34GNVlV1KuAysMEEZBFLRQ9dw2Ire1t7SzjtLWCKC2iQRxwxoFRFAwFCjgADjFVZ9C0i60ddJutLsptNVVVbOS3RoQF6AIRtwMcccVfoo33DbYzP+Ec0mOwvbWy0+1slvofJna2t40Lrs2DPy4bC8AEEY4xirOmadbaRpNpptinl21nCkEKk5wigADP0FWqKAIZ7S2unha5t4pmgk82EyIGMb4I3LnocEjI7E1nah4bsr6xms4Wk06C6nM12NP2wtdEjDB3A3fNxllIbgfNjNa9FAXKc2l2suiyaVHGsFo9ubdY4kXCIV24CkFcAdiCPanaZp1tpGk2mm2KeXbWcKQQqTnCKAAM/QVaooDpYp6pYz6hZ+Ra6pd6W+4Hz7RYmfHpiVHXH4Z96ZoekQaBoFjpNpJLJBZQLBG8xBdgowCcADP0Aq/RQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAc/qWuaZpHljUbyKBpCoRCcs2WCjCjnGSBn3qXUtRtNI02e/wBSnW3tbdN8kjZwo/Dk/QdawPH1z/xIfscVte3E8k8EirbWUsw2pMjNkopA4BOCcntVbxZDqmuaS1xpVlHc2Is5iILppraYylSobyjESxAztU7ck59DUtvlbRSSbszsIpUmhSWM7kdQynHUHpTqpaOLgaLZi8iWGcQqHjRywU46ZIB/QVdrSSs2kRFtpNmjRRRUjKWrrZnSriTU5JI7SFGlmaOV0IVQSclCCRjPHel028s7qF4tPJ8u1YQsvlsmw7VYLyB2Zf5dQa5j4maNqXiDQbXTNNuHgS4u1S4McU7Ex4Jbd5U0Z24BBBJB3AcHBEvw28OXfh7won9qXEk17fN9qnEjzkxs4yUIllkO4EkEgjOBkZySR1v/AFqEtLHQ6rrWl6Farda3qVnp1uzhFmvJ1iQsQSFyxAzgHj2qm/ia0uNE/tTw9GfEcG8p/wASm4gfp1O55FTjuN2eelYPxNW/S38O3WlpKZLTWUmeSPTpr4Qr5My7mhiIdhlgOCOSK3tE1GXVvDrSzvJLcAOkjtpc9hvP+zDNlwMEc5IJzz2Etvlk10/yRWnMl3/4JPo2twa74as9bs4pxb3lutxHG6jzNpGQCASM/Qmp9Lv/AO1NJtb77LdWf2iJZPs93H5c0WRna684YdxXKeHPDtvffBzRtL8Q6PHcvDpse60vrUOUlEeB8jjhh9M1z03hu4v/AIdeAdPv9JuJvstli6tpIGPlsLCRQJFxx8+Bhu+BVztHnt0/4P8AkSteXzv+h6rI/lxO+1m2qTtUZJ9h71W0u/8A7U0m1vvst1Z/aIlk+z3cflzRZGdrrzhh3FeeeFfCMEuiarZa3oQngls7KYRX9r5gkuBagO+HB3SbuCeueDTR4eub34e/DXTr3T7s/Zp7T7bCEdGhVbSQN5mMFRuIU5wOcHrina0mvNL720JO8VLyb+5XPUKK8t1LSv8AhH7XxFYaZ4Xil0i51K2CW39mvcWsEbQrvmFtGMyqHHKJjk5OMGsyw0vUk8E3Om3OlXcmn2viAXF1YWemy2qT2DjdtihJOU3EExBmOAVIycVCd/69P8/w9Smrf16/5fij2OR/Lid9rNtUnaoyT7D3qpp+pi+0ODU2tLy0WaATG2uYCs8YIztZBk7h6DPNc/baJ4V1jwfdWWn+GYI9ODM62V1oxtl80L98Qyxqc/7W2sS10vUE+GvgO3u7G5e0s0tf7XsfJYyFBblQrRY3MFkKEpgnjpxT7/L8bi7fP8LHoFjdNe2ENy9rPaGVd3k3AAkT2YAkA+2asV5HL4cn1C/t44dJvYfD8nimOa2tfKkh8qAWbrI2wYaKNpc8HaDuPGG57Lwhoseha54jtbDTxp+mm6he1hii8uHmBN5jUALjdnOO+e9G+v8AWyf6/gD0dv63a/Q6qiuT+IlncXmg2ipaXF9YR30UmpWdqC0k9sM7lCg5cZ2kqM7gCMHOKyryx06bSdJ/4RrQprTQIdV8zU9Pj0mS1MqeWwB+zsis6iQxkgKc4zzg0LX7/wDLX8fwG9Pu/wA9PX/M7TVtQm0yxNxbaZd6mwODBaNErgd2/eui4H1z7U3QtYg8Q+H7HV7NJY7e+gWeNJgA6qwyAQCRn6E1zvg6ymtx4ja2sp7LSLi83abayxNFtXyUDlYjgorSByFwO5xzzgQWN9YfDf4fTXOn3udIuLaa9gjtZJJol8iSM/ulBckM65AGRz6ULz/u/jv9wW7ef4HqFFeQXmiXev72v9Bvfs82vX1x9nuLc8xmxZY2YDI2s2AAe5x14qpZ+ErqSbRrW40m+Fq+o6dPdfJKu4iwkWV3bqfm2qxJ5yFPXFC1t/27+P8AkTfX/wAC/D/M9qory3UtK/4R+18RWGmeF4pdIudStglt/Zr3FrBG0K75hbRjMqhxyiY5OTjBrZ+Flvdafo+qafeWr2oh1GSS3RdOks4fJkCsvlIxO1c7vlDEqeDg8UR96/8AXb/Mb0t/Xf8AyOo1XW7bR7jTYblJWbUrwWcJjAIVyjvlskYGEPTPOOK0a4z4j6fq+oReH18P5S8i1YOs5hMiQf6PMA7gdFBIGTxkjr0Ot4Q8v+w8DTLnTblZWW7iugS7zfxP5hH70HqHHBGOmMAjqn6/oglo16fqzdooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb1nX7XQ4ke7iuXDuiAwwMyjc4QZb7o5YcE5p+r6uNJW122dzey3U3kxQ2xQMW2M/V2UAYQ96yvG0eoXmjCx0zSbm+eSaGUvFJCqoElRyDvdTkhTjAP4VZ1YJqeixHUPC82o7nybGb7OzxHBAbLSbM+6sTzS6XH1Ne2mee1SWW3ktnYZMMpUsnsdpI/Impay/DNlead4asrTU5PMuoo8Od5fbySF3HrgYGe+K1Kp7krY0aKKKQzn/GXjLS/BWiG+1S5t0kchLeCa4WIzOWC4BPYbgWIBwMml0HxRBqfh+TVb680RLeOQo0+naqLu3Xp1lKIA2T0x6c80zx3pV5rPhN7PTYfOuDd2kgTcF+VLiN2OSQOFUn8KPFel3l9caJe2UX2oaXqAupbQMFMy+W6fKWIG5S4YZIHy9elJeff/AC1G9jSGv6ObGK8GrWJtZnKRT/aU2OwBJUNnBICscD+6fSptO1Ow1ixS90m+tr61ckJPazLKjYODhlJBweK89m8HanqWuJqV1pMcdrc+JotReymeNzDFHaGLzHAJUsXCnClj0Oc5x6RDbw2ystvDHErOzsEUKCzHJY47knJPemtrv+tE/wBWvkJ6Oy/rVkWpaja6TpdzqGoSiG1tYmmmkboqqMk1kR+KUtPD7av4mjtvD8Mj/wCjpf3qIzAjKiQnCo55+UM2PXqA7xvpd1rPgnU7HT40luni3QxOcLIykMEJ7Z24z71PYazaeJdBuJtMcs+xopYJFKSwS7eY5FOCjDI4OOoPQ1Mr8rsVG11csaFqMmr+H7DUZ4I7eS7t0maKK4WdELDOBIvyuOfvDg0usa1p+g6e15q19aWUIO1ZLu4WFGbHC7mIGTiqPgnTrrSPAOg6bqMXk3dpp0EM8e4NsdYwGGQSDyOoNa15G0thcRxjLvEyqPUkVVbRy5SaetuYzdN8Q28/hzTdU1aS001r+JHEbXsciBihfasoO2TgE5XggE9KuaZrGm63Z/a9G1G01C23FfOtJ1lTI6jcpIzXER+EdQm8F/D3TL7To5X0ee1kv4ZGRliEds6k8nDYcr0z6jpmul0TS7iy8UeI7uWARwX1xDJC4I/eBYEVjgcjkEc+lVK3NK3d/p/XyEtl6f5mrqWo2uk6Xc6hqEohtbWJpppG6KqjJNYB8W30EOjSahojWf8AbGoi0hikuQZYozE8geQBSA3yEbAxxkfNnIq1430u61nwTqdjp8aS3TxboYnOFkZSGCE9s7cZ9657xLHJ8QtI0VvDV1PbPbapuvJFxHPp5+zyqd6Pgq6mRfl+9yCPWo1v9356/wBdCun3/lp/XU7Y6lYi3uZze2/k2hYXEnmrthKjLBznC4HJz0qn4g8Q2nhvR5tSvorqaGGJ5WFrbtKdqqWJJAwvA6sQPeuY1Xw/rusfDO90iJZtEvobW4tltdPa3MF+ShCkGRWKo5PcowJOSeGNnxNpus2/w71PR7VNV8TXuoWk1ukjtZxNCXiKjd/qV2A+gZue9E9ItocbNq/Xfy/r/hjf1DVbuHRYtS0rTG1EMFle3WURy+WVydgPys/T5SVB5+bsZ7PWNPv9Di1i2uozp8sAuFuGO1RHjO456YHXPTvWPa+Ik0bwnb3HiCwu9KliC20drMY5ZriQLwsawu+8nBwo54PAFM8NaVe6T8NY7K+06K5vfs80kmnl12O8jM/kljlcfNsz0/CqnZc1v6/r+t0RC75bm2+s6XHZW95JqVotrdAG3nadQk2VLDa2cN8oJ47AmqE3iWO60T+1PCotfEUEcmJRY3iMSoHzeWRlWccfKWXOevY42r+H7jWtJ8GRtoFvaR2OoQXN3poaN47NFgkG0dFYI7KBtHYECp1ni8J6x4k1bVl8m31C6gNosYDyXbiBV2Ii5ZnJUjGMnGenNJ6X9f8AL7736FLp6f5nQWusWl/oEesae/2m0lt/tETIOXXGRweh9jUTawbXw5Nq+pwpDHDA1wyQy+Z8gXd1IXnHbp71i6Dol1Y/DKKw1KF47sQSzSQW8pGx3ZpPLBU84LbfQ49Kz/Ffh1fHnhDR7OCZbiBLiJrn7PHauq7VyTiVHAII24XH3yDlciiWl/kKPS/mdfpmqxaqtyYIpEFvMYG8zbywUE4wT0LbT7g/Wp72+tNNspbzUbqG0tYRuknnkCIg9Sx4Fc58PPB0HgzwtFZqiLdz4muysEEeJCMsv7pEBUEkDOSBxnGAJPGum317Ho13p9mdQGmakl5LZK6I06hHUbS5C7lZlcBiBleo4py0dvT/AIIo7X9f+ATaR4x03VYdYu/tNrFp2mXAi+3falaGVDDHJ5m/hQP3mOp6ZzzTNS8aabaW2jXdjPa39jql99l+2Q3SmKMeXI5fcMggeWRjI69eK43UvCPiLU9M1a6h099Nnk8Rw6tFaQz27STRJBGpwWVohJuUthgRuXrjDU9/C2qG1sLxNI1e/nTxCuqXlvq0tiJXC2zR7kEJEWchMDIO7kkckHb5fpf836W+6ns7ef62/T7z0AeItEbRTrA1jTzpg63wuk8nrj/WZ29eOtNfxPoMeijWH1vTl0xjhb43cYgJzjHmZ29eOtcd/Zniqz0nVdQ0vTntbnVtZW6eyie3e5trfy0Qsm9vJ84lNxyxX5jySOdX4e6bquj2ur2+uQ3SvcalJdwz3UkDNMsiqeRFhQwIO4BQM9Mjmktfu/y0/F/cJ6f16/5fiauheJItT8Jwa5qX2PT4ZNxZlvo54VAcqpEy/Kc4HToTjrWpZX9pqVqtzp11DdwMSFlgkDqcHBwRx1rznw7pF9d+AvCN5aQ/aRpuoy3kloHUGeNmnUFSSFyPMVxkgcda6fwnpd7a6l4g1O+tfsK6rfLPDaF1Zo1WFIyzbCV3MUJ4J4xk54Atb/12/wA/wD+vzN+9vrTTbKW81G6htLWEbpJ55AiIPUseBWNpHjHTdVh1i7+02sWnaZcCL7d9qVoZUMMcnmb+FA/eY6npnPNQ+NdNvr2PRrvT7M6gNM1JLyWyV0Rp1COo2lyF3KzK4DEDK9RxXIal4R8RanpmrXUOnvps8niOHVorSGe3aSaJII1OCytEJNylsMCNy9cYaiPW/wDWq1/F/d9z0/r56fgvvPTNP1Kx1ayS80q8t721kzsntpVkRscHDKSDUWr3GpW2ntLo9na3lwpyY7q6a3Tbjk7ljc59sfjWN4I0ufTrTUZruLV47i+uzcS/2s1oZGbYqZAtvkAwg985PeuknUvbyKoyWQgD8KU7qOgR31MXR/FVnfeCLDxLqklvpNtdWsdxIbi4ASHcAcF22jvjPFamn6lY6tZJeaVeW97ayZ2T20qyI2ODhlJBrirfTfFGjfCjw9pumWjDUrWK3ivY4WgaeJAuHMJkPlGQHGNx24z1OBV74eaXq2kWmsQa3BdB59Re7inuXgZpVkVTyIcKGBBDAKoz0yOat25pJbL/AIH+f4E6pL+u/wDl+J1N7fWmm2Ut5qN1DaWsI3STzyBEQepY8CudtfH+izWerXs9/p9tYWN2ttDeS30aw3RaFJVIc4UZ346n7uaf4102+vY9Gu9PszqA0zUkvJbJXRGnUI6jaXIXcrMrgMQMr1HFVvDGl6lFH4pnvtLGnPql+1xbweajkqbeJMsVOAxZWyPXPJGCc7vlk+y/y/4JatzJf11New8RW7+ErTXdaks9Khmt0mlL3sbwxbgDjzgdjDnhhwasJ4g0aTRTrCatYtpigsb4XKGEAHBPmZ29eOtcnFp3ifR/hT4c03S7RhqNpb2sF7HC0DTxIsYDmEyHyjICBgsduMnnisSy8NeI7SxV7zTbu+a08Sf2t5NxPaiS9jeIjA2FYxIjncQQikrwT1rSVudpbX/Vf5/gZq/Km/60f+X4no0HiHRrrTpL+21ewms4iBJcx3KNGhIBGWBwMhlP4j1pRr+jmyivBqtibWZzHFOLlNkjAElQ2cEgKxwPQ+lec6Rp9/q2q6jq1rpyp9h8V/a5tPSZC0gFkkZ+bITzFZtxG7G5SNx4JszeDtT1PXE1G70iNLW58TRai9jM8bmGKO0MXmOASpYuFOFLHoc9cStbedvxt/m/uK018r/hfT8PxO5i8UaBNo8mrw65psmmxna96l3GYVPoXztHX1plxrMl7oQ1HwkdN1lWOVdr/wAuFlGckSIkmSCOmPxFcxq2l+JbG/1670CyJ+36jayF4DAZzCsKrI8QlPl+YGAA8zjGTzxVvwHpOsaXpmuWuswXXmXF/LdQz3MkDNMsiqefKwoYEEN8qjPTI5qW24trt/l/n+A9mv67/wCX4m94Y1r/AISPwrpmsm3+zG/tkn8nfv8AL3DON2Bn64FatYPgXTbvRvAOh6bqUXk3drZRRTR7g21goBGQSD+BrerSdlJ22JWwUUUVIwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDlvEOuyaFapcLp8t1GZI0aQSKqpvkVBnJ3Z+bPA/EU3xF4ji0BLdWEJmuWYIbm4EEKBRlmeQg7VGQOhJJAxUPi/T9X1fTBY6TBZMrSRSvJc3TxlSkivgBY2znbjORjPemalpOp311pGsLbWI1PT2lBtpLh2hZZBg4k8vIbhTnZ6j3pdBmzpt097p0NzKLcNIu7/AEafzoyOxV8DcMd8CrVZfh3SpNH0cW0xjMrzSzusIxGjSOXKr7DdgHjPXA6VqVTJRo0UUUhhRRRQBkeJ/EuneE/D9zqurXVvBHEjGNZ5lj85wpIjUnqxwcAZNQeFvFmn+LIL2bTLmzuI7W48gta3SzBvlBzwOBksB6hc96Z4w8MnxRZ2VsZZUjhulllEd7Pb7kXnH7phk7gnXpyRg4qfwl4eTwx4bttOWWaaVVDzyS3Ms2+UjLsDIxIBbJxwOSccmiPVv+vP8wl0sL4j8Rx+HIrEtYXmoTX90LSC3s/L3s5Rn6yOigYQ96ZN4la10GXUdT0jU9NZWKLBJbfa5OmQxW1Mvy+/bHOOKr+MfDEnij+xY1maKGy1Jbqcx3MkEhQRSLhHjwwbLjuOM89q1YNKistFk0+zkuHUo6q13dS3D5bPV5GZj17k4qXfkff/AIC/4JStzLt/wX/wCLwxqM2r+FNL1K6ltppru1jmeS0V1hcsoOUDgMF54DDPrWpWP4S0mfQfBejaRePG9xYWMNvK0RJQsiBSQSAcZHcCoPFnhCx8YWUFtqMmxIJPMU/Y7a45xjpcRSAfUAH3rSpZSfLsRG/Krm/WN4j8Rx+HIrEtYXmoTX90LSC3s/L3s5Rn6yOigYQ96g8J+DrHwfa3EGnSb1uHDt/odrb4IGOlvFGD9SCaj8Y+GJPFH9ixrM0UNlqS3U5juZIJCgikXCPHhg2XHccZ57VL3VvL/gjWzv5/8AsTeJWtdBl1HU9I1PTWViiwSW32uTpkMVtTL8vv2xzjirHhjUZtX8KaXqV1LbTTXdrHM8lorrC5ZQcoHAYLzwGGfWpYNKistFk0+zkuHUo6q13dS3D5bPV5GZj17k4qt4S0mfQfBejaRePG9xYWMNvK0RJQsiBSQSAcZHcCmra/L9bh2+f6GxRVTU9Mg1azNrdSXUcZYNutLuW2fI/24mVse2cUml6Xb6RZ/ZrSS7kj3Fs3d5Lcvk/7crM2PbOKQDtR1CDS7J7q6ExjTAIgt3mck9giAsfwBqPR9asdesTd6ZK8kSyNEwkheJ0dThlZHAZSD2IFZ/i/TdY1TR44NAulglFwjzxtcvbfaIhndGJo1Z4ieDuUE8Y4zmsHw3p+t+B7W+tn0O61mO9vnu42sNQWZ4tyrlZGupI2bBGAwZiw5IXgULrf+tv+D933j6W/rf8A4H3nW61q0Oi6Y93cLcMo4H2e0muSDg4JWJWbbxycYFc6niy/Gg+DbwtY3Emu3MMVxLAkgiKvBJJuiD4YcoMbhnBORmtmzv73WbO8hutCv9Iby9qG+kt2EhYEceTLJ075x14zXL3fw8udS8A+EvDl7cRAaT5K3zwzOu9Vtniby2AyTlxjIAIzn0oWn3x+67uPT8H99tDttP1K11SB5rCUzRK5j8wIwViOCVJGGHuMj3rPg8QL/Zt1ql2j/YBOUtfs1vJNLKgwu7YgZm3MGI2j7uD3qkINeh8NxaPeNFJdzTfZEvbNSoFvjmZl2gRvsBGBld+3HBwJfFGjapdeHraw8MTR2ghljEkH2h7YSwKMGJZo1Z4u3zKM8Y4zmh+X9f1/n1Ql/X9f1+JqaPrVjr1ibvTJXkiWRomEkLxOjqcMrI4DKQexAqh4k1u50e90CG2SJl1LU1s5jICSqGKR8rgjByg654zxWB4b0/W/A9rfWz6HdazHe3z3cbWGoLM8W5VysjXUkbNgjAYMxYckLwKd4i0a++IVrYWd9o1/oltaXwnnN5cQh5YzDLGRGYJJPmBdeG2gj15FHa3lf8Lgut/P9bGnqni1Y5tDOjmO4t9Q1f7BNK8b7SvlSMTGeA3KAbhlev4bun6la6pA81hKZolcx+YEYKxHBKkjDD3GR71x2s+CtW8S6BpOk65cWpSw1AtLPayNE09sIZI1YKFwkn7wZUfLwecHbXUeH4NUtNKW11t7WaaBjHHPbAqJox91mTACNjqq5XI4wDgC2f8AXRA916fqx+t6sui6W948LzAEKADhQT0LN/CucAnnGapwJpXjbw/G2raRb3lo7BhDewpNGzAfeXcCGGSQGwM9Rwa2J7eG5jCXMMcyBlcLIoYBlOQee4IBB7EUQW8NrF5dtDHDHktsjUKMk5JwPUkn8aVu4GRr2vW/hWz06KLTLm7N3cLZWtpYCJTu2MwHzuiqoVD39KoX/inUbdtC3aPNpp1HVhZSw35idxGYZH3qYZGUcoByfXjoam8Y+GJPFH9ixrM0UNlqS3U5juZIJCgikXCPHhg2XHccZ57VR8UeAo9c0fSNJt7i4Fla35nuGuL6aWZozFKhCyOWYnMg4JxjI6cU1fd9192n/BHpsuz+/X/gHUafqVrqkDzWEpmiVzH5gRgrEcEqSMMPcZHvVqsG0Gu6X4SukvDZ3N/ZxSC1khjcrOqr+7Z41UFWPAKpkf3euBf0OfULnw/p8+tQR2+oyW0b3UMYIWOUqCyjJPAOR1NP0Fr1DWtWh0XTHu7hbhlHA+z2k1yQcHBKxKzbeOTjAqLwxqM2r+FNL1K6ltppru1jmeS0V1hcsoOUDgMF54DDPrV+6iaezmiQgNJGygnpkjFccPh1DqPw/wDD/h/XZo/N0m1iid4rW2uUZ1jCHAuIXAHHUKD/ACpLZ/L9bh2+f6Gz4k1u50e90CG2SJl1LU1s5jICSqGKR8rgjByg654zxVv/AISDTP7Hu9VFyTYWayNNcCN9u1BlmXj5wMHlcg44ribz4Q2f9l2emafcgWn9oi6uyILe0cx+RLGQn2aGMFsyD7wPGeccHU1XwhqXiDwHd6NrN0v26O3mt7O4sr2e1jmBTbG00ce0em5MOvBwMHaBbP1/Rf8ABK0co32/4L/Q2/FGvy+HfDt1q0GmzagltbyTusciIFVELEsWOecdgx9q07O4+12MFzt2edGsm3OcZGcZrl9f8M6gngW+0DwzGly2oW8sEkmr6vcOYt8ZXcrOsrNj+78o960LN9csfBs32yzsotStLZlgjtp5LqOQqnyk/u0bkj7oBPoSaLpcz9P1v+hKu+Xu7/pb9TeqrqOl2GsWTWer2NtfWrkFoLqFZUYjkZVgRWS0/iq58B289lBplv4lktoXeG8Egto5TtMinaS2B8wHJ5xV7Xf7b/sKf/hGf7P/ALWwvk/2hv8AIzuG7ds+b7ucY74ptWdmEdbMt2NhaaZZR2em2sFpaxDEcFvGI0QegUcCp6zdd/tv+wp/+EZ/s/8AtbC+T/aG/wAjO4bt2z5vu5xjvip9TmurbRbuezRHu47d3iVkZ1ZwpIG1fmIz2HPpSbsm2EVeyRBrfiHSvDkFvNrV2trHczi3hZlZt8hUsF4B5IU49TgdSBRoviDTtfinfTZZS1vJ5U0U9vJBLE2AQGjkVWGQQRkcg1jT6XrPiHTPCN7qKW1rf2V1DfahCCwVW8iRXROvIaToT0B5rT0rSJ7HxDrl/M8Zi1GaKSIKTuUJEqHdx6qemeKdmm0/62/4IXTtbt/n/wAA2KKKKQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQByXijV9Q0XT1u7GC2kiEsUcjTO24b5VThQOeGzncPoas65Lf21mbmxvbS0jhVml+0Wb3Bb0ChZE59uc5FVvE+i6hr1itnZ6hbWcBdJH820aZiyOrrgiRQBleeD+FWJNMurxNPGpXcMptpvOmWG3KJMQDs4LsVwSG6nJUdKOgyzpTX7aVbtrAhF6yZmECkID6AEk/qat0UU3uJGjRRRSAKKKKAM/XdVGiaLcXwhNzIgCw26ttM0rEKiAnoWYgZ965PUfG11LovhTVLGGaA6hqotb2yRBLICI5g8PI6iSPG75fu5yBmuk8QeHYvEf2OK9uJ47S3m894reaSF5HAwhEkbKy7SSeOpx6c843w2e1kX+xtaktoYdVXVbaO7R7spL5LxuGd5N7qzMGOSD94AjIIS317r81/wfuQ+mnZ/k/+AWtX8YPcfD3xLqOlx3OmanpNvOrwXSRmS2mWPeuQCyNwVYEFgQa0pH1Hw/4aeUy6t4juDlt+20WWMFeuP3KFRjPrz37ZOpeEL2PwB4qtIphqeta5FPJK6IIUklaIRoiKzHYoVVAyx7knmui0+e51XRpFvNMu9JkZTF5V20Ltjbjd+6kdcc+ueOlEruLtvZf1941a8b93+liHwffSap4K0a/nu5L2S6sopmuJYFheUsgO4opKqTnoCQPWtmsLT9Gu/D/w+t9F025aa8sNNFrBcLEoLyJHtVgjHb1AOCcepq9oceow+H9Pj1yZZ9SW2jF3KgADy7RvIAAGCc9AK0lZylbb/hzON1FXHarZXF/ZeVaapd6XIGDefaLEz49MSo64/DPvWd4H1G71fwHouoajN593c2Ucs0pULvYqCThQAPwArR1W9uLCy8200u71SQsF8i0aJXx65ldFx+Ofas7wPp13pHgPRdP1GHyLu2so4poiwbYwUAjKkg/gTULZ/L9Sy/q2vaRoEMc2u6rY6bFI21HvLlIVdsZwCxGTSaTr+j6/FJLoWrWOpxxNtkezuUmCH0JUnBpdW0a11qGOK8lvo1jbcDZ389qxOMctE6kj2PFJpOi2uixSR2ct9IsjbmN5qE90QfYyuxA9hiheYn5BruqjRNFuL4Qm5kQBYbdW2maViFRAT0LMQM+9cnqPja6l0XwpqljDNAdQ1UWt7ZIglkBEcweHkdRJHjd8v3c5AzXSeIPDsXiP7HFe3E8dpbzee8VvNJC8jgYQiSNlZdpJPHU49Oecb4bPayL/AGNrUltDDqq6rbR3aPdlJfJeNwzvJvdWZgxyQfvAEZBCW+vdfmv+D9yH007P8n/wC1q/jB7j4e+JdR0uO50zU9Jt51eC6SMyW0yx71yAWRuCrAgsCDWlI+o+H/DTymXVvEdwctv22iyxgr1x+5QqMZ9ee/bJ1Lwhex+APFVpFMNT1rXIp5JXRBCkkrRCNERWY7FCqoGWPck810Wnz3Oq6NIt5pl3pMjKYvKu2hdsbcbv3Ujrjn1zx0oldxdt7L+vvGrXjfu/0sQ+D76TVPBWjX893JeyXVlFM1xLAsLylkB3FFJVSc9ASB61s1hafo134f8Ah9b6Lpty015YaaLWC4WJQXkSParBGO3qAcE49TV7Q49Rh8P6fHrkyz6kttGLuVAAHl2jeQAAME56AVpKzlK23/DmcbqKuO1WyuL+y8q01S70uQMG8+0WJnx6YlR1x+Gfes7wPqN3q/gPRdQ1Gbz7u5so5ZpSoXexUEnCgAfgBWjqt7cWFl5tppd3qkhYL5Fo0Svj1zK6Lj8c+1Z3gfTrvSPAei6fqMPkXdtZRxTRFg2xgoBGVJB/AmoWz+X6lm9RVTU9I03W7M2ms6fa6hbFgxhu4VlTI6HawIzSaXo+maJZ/ZNF0600623F/JtIFiTcep2qAM8daBEeu6qNE0W4vhCbmRAFht1baZpWIVEBPQsxAz71yeo+NrqXRfCmqWMM0B1DVRa3tkiCWQERzB4eR1EkeN3y/dzkDNdJ4g8OxeI/scV7cTx2lvN57xW80kLyOBhCJI2Vl2kk8dTj055xvhs9rIv9ja1JbQw6quq20d2j3ZSXyXjcM7yb3VmYMckH7wBGQQlvr3X5r/g/ch9NOz/J/wDALWr+MHuPh74l1HS47nTNT0m3nV4LpIzJbTLHvXIBZG4KsCCwINaUj6j4f8NPKZdW8R3By2/baLLGCvXH7lCoxn1579snUvCF7H4A8VWkUw1PWtcinkldEEKSStEI0RFZjsUKqgZY9yTzXRafPc6ro0i3mmXekyMpi8q7aF2xtxu/dSOuOfXPHSiV3F23sv6+8ateN+7/AEsQ+D76TVPBWjX893JeyXVlFM1xLAsLylkB3FFJVSc9ASB61s1hafo134f+H1voum3LTXlhpotYLhYlBeRI9qsEY7eoBwTj1NXtDj1GHw/p8euTLPqS20Yu5UAAeXaN5AAAwTnoBWkrOUrbf8OZxuoq5keMdbuNEuPDzRXSWtvc6qIbt3C7TD5ErnJb7oygORjp1q68k3iPRzJp95qWiqZMx3McUIklQdwsqOAp91Dcdh1h8WeE7XxdDptvqDIbazvBcywvHuE48uRNnUbf9ZnPOMfjSwR6p4c0HyXW98SvHKUgEIiScRfwiRpZVVyvQtkE8cE5Jyd+SXfp9y/X9S3urdv8/wCvuDwRqV1qvgHRdR1Ofzrq4so5Z5SqruYrknAAA/AAVD/wkE9t4ZvNelja5SeTOnWa4QyKxCQqDjrI2GyegcelUtF0TVIfhroPh+6tzBKbaK21D94pMMYX94uQeScbMqTjdntWxr3huDxAtlBdTzQ2VrL5zQ20skDuwGExJGysoUknA6nHpzpP4nbv/X/AFoc5qPja6l0XwpqljDNAdQ1UWt7ZIglkBEcweHkdRJHjd8v3c5AzVvV/GD3Hw98S6jpcdzpmp6Tbzq8F0kZktplj3rkAsjcFWBBYEGqrfDZ7WRf7G1qS2hh1VdVto7tHuykvkvG4Z3k3urMwY5IP3gCMgibUvCF7H4A8VWkUw1PWtcinkldEEKSStEI0RFZjsUKqgZY9yTzU6Wd/62/4JUbc8f66v/gC6xfah4Xg8OifX7i6jvNWEd3c3yW6nyfIlcqSkaKqgoDnGevOK6jTNRXVLU3MVvPDEWIjadAplXs4GchT23AH26Vzup+Hx470rTI9c0y40yKxvRPLZ3ywyG4UROmMxSsFB8zIOcjb06GtK307V9M8K3llHqkl/dxxyixuHiXzlG0+Wrlm2yODgbjtDcZ5ySN2Tv8A1ov6+8iKvy+mvrd/19xV8Y63caJceHmiuktbe51UQ3buF2mHyJXOS33RlAcjHTrV15JvEejmTT7zUtFUyZjuY4oRJKg7hZUcBT7qG47DrlX/AIPn8UeGfDtn4suIri5sXjuNQHlArdSCF43AxgLkyEggcY4HpoQR6p4c0HyXW98SvHKUgEIiScRfwiRpZVVyvQtkE8cE5JUk1GS630/D9f1He7TXb/P+vuMvSfE2oL8LNG1q623l9dW0HmSuAuZJAAG2KBu+Yj5VwTnir0fiqRfBj61NZiSYfu4beN8G4l3BFUA8oWk4wcle/ORU3gfTrvSPAei6fqMPkXdtZRxTRFg2xgoBGVJB/AmpvEHh2LxH9jivbieO0t5vPeK3mkheRwMIRJGysu0knjqcenNT+J27/wBWHoc3qPja6l0XwpqljDNAdQ1UWt7ZIglkBEcweHkdRJHjd8v3c5AzVvV/GD3Hw98S6jpcdzpmp6Tbzq8F0kZktplj3rkAsjcFWBBYEGqrfDZ7WRf7G1qS2hh1VdVto7tHuykvkvG4Z3k3urMwY5IP3gCMgibUvCF7H4A8VWkUw1PWtcinkldEEKSStEI0RFZjsUKqgZY9yTzS0s7/ANbf8Ecbc8f66v8A4AusX2oeF4PDon1+4uo7zVhHd3N8lup8nyJXKkpGiqoKA5xnrziuo0zUV1S1NzFbzwxFiI2nQKZV7OBnIU9twB9ulc7qfh8eO9K0yPXNMuNMisb0Ty2d8sMhuFETpjMUrBQfMyDnI29OhrSt9O1fTPCt5ZR6pJf3cccosbh4l85RtPlq5Ztsjg4G47Q3Geckjdk7/wBaL+vvIir8vpr63f8AX3G5VLVbK4v7LyrTVLvS5Awbz7RYmfHpiVHXH4Z96boceow+H9Pj1yZZ9SW2jF3KgADy7RvIAAGCc9AKdqt7cWFl5tppd3qkhYL5Fo0Svj1zK6Lj8c+1Komk0hxd9TO8D6jd6v4D0XUNRm8+7ubKOWaUqF3sVBJwoAH4AVvVg+B9Ou9I8B6Lp+ow+Rd21lHFNEWDbGCgEZUkH8Ca3quduZ2AKKKKkAooooAKKKKACiiigAooooAKKKKACiiigAooooA43xhe6npukreaddxQKk8COpg3s2+ZEOGJwBhj/CfqKj8Y6pd6bHYC0mu40mmZZv7PgWa52BCcojBgQDjccE46Vd8QeH/+Egt1t5dTvbOAMrNHbCLDsrBlJLxseCo6ED1pLrw79rWykfVb5b6y3iO/QRCUh/vKV8vyyDgfwdhS6fMY/wAL3s2o+GbK7uriO5llQlpY8c8nGccBgMBgOAwNa1UtJ0uDRtPW0tTIyhmdnkbLSOzFmYn1JJPGB6AVdqnuStjRooopDCiiigDI17Xf7HbT7eG3+03upXP2a2iL7FLbGdizYOFCox4BPTiufufiBdW862H9hiTVRqyaXJbreDywzwGZJBIU5XaBnKgjng4APTaxottrMdt57ywzWk4uLa4hIDwyAEZGQQcqzAggggmuT17wJM8mlnSrm9kun1xb/UNSMsQnUC3kjDgFQmF/dqFCkY6qeaS317r81+l/62eln6P77P8A4B0XhvX5ta/tC3v7JbG/026+zXMMc/nR52K6sj7VLAq4PKg9Rirmraza6LDHLeRX0iyNtAs7Ce6YHHdYkYge54qLQtBt9Btp0hmnup7qdri6urllMk8hAG5toCjhVACgAADAqXVtB0jX4Y4dd0qx1KKNtyJeWyTKjYxkBgcGm9lby/4IkJpOtWutRSSWcV9GsbbWF5p89qSfYSopI9xmoNe13+x20+3ht/tN7qVz9mtoi+xS2xnYs2DhQqMeAT04qfSdA0fQIpItC0mx0yOVt0iWdskIc+pCgZNJrGi22sx23nvLDNaTi4triEgPDIARkZBByrMCCCCCaGHT+vkczc/EC6t51sP7DEmqjVk0uS3W8HlhngMySCQpyu0DOVBHPBwAUufiZY6ToOs3HiIWOmappTyxGxk1BdtzIsSyqsUjKpbcrr/DkE9Ki17wJM8mlnSrm9kun1xb/UNSMsQnUC3kjDgFQmF/dqFCkY6qea3ofB1jF4b1XSJLm7n/ALXEpvryVl86ZpE2F+FCghQAAFCgAcULZ3/rSP8AwStOZdv+C/8Agf1ulzren654XmvtB19zBGRvu9ERL2RCMEqqhJAW5HG0nB6ViaFruu33gOS7huDf3YvpbaOQ24Fx5XmFFMkagKkoBDEMFAx8wXnHX6jYTXun/ZrXUrrTXBGLi1EZcY7YkR1591qDQdCg0Cxkt4Z7i6knne4nubpw0k0jdWbAAHQDAAAAAAo0dyU3yrv/AMOY134g1fS/hzeavdWwOowxlYYZUMZL5CL5g6ctydvGDxkYJZe3134I03SoFW88RX+ragttJJcXYQmRo3YuARsRB5f3FCgAkgE9eg1zR7bX9CvNKvt3kXcTROUOGXPRgexBwQfUVmQ6Dfalb6b/AMJRPFJdaRei5t7iyYqLnEbIGkRlOwkO2VVjyAQ3OAdfu+6+v9f5Bpb7/vtoRWHjOGGPUx4u+waDJptwkEsj6gGt2LoHQrI6x8kHGCo5HeofEviNrrwBquueC9d06ZbK1nl+0QBbpSyRlgoZX2g5xnIbjtW/ZaRBY6pqN/C8hl1GRJJQxG1SiBBt49FHXPNVfE3h8+JtGm0x9UvtOt7iN4p/sYh3SxspUqTJG+Bg9VwfepldxaW5UWlJN7CT2M2veGrTGoXdjdmJJo7q1k2Msm3qV+6688owKn04GDwjrFxr3hSx1C9iSK6kVknSP7okRij7fbcpI9qgGk63pfh1dO0bVje3JYIt5qqpm3j24yqQxoJCMDCnbnJy3GK0dC0a28P6FaaVYlzDaxhFaQ5Zz1LMe5JJJPqa0k022tjOKaSTL9FFFSUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHE+NzdW+iC8tL+5tjHcW6mOFlVX3TopycbuhIwCBTvFJnF1pwlXUDpRaT7W2nGXzQ20eX/qv3m3O7O3vjPFaGseHtP15UTUxcuiYISK8mhUkEEEqjAEggEE9MUs2g2c+nxWckl95URJVl1CdZDn+9IH3MOehJpdBlHwTf3OoeGle8aWSSG4ngEk2N7qkrKpbHU4ABPcg10FQ2trBY2kVrZxJDBCoSONBgKB2qaqYjRooopAFFQ3V5bWMPm3txFbx5C75XCLk9smpgQygqcg8gjvQBh+JNbuNLn0mysEiN1qt59ljlmUtHCBG8jMQCC3EZAGRkkc1zN3411+DURo0UWmtqKa5Hpj3DRyCF45LVp1kCbtwYcAruIODyM5Xt9R0uz1a3WG/h8xY5BLGysUeNx0ZWUhlPXkEHk+tcxrnw/s76HSrbToxDBBq41C9d7mUTTfupE3CUEuZMsmCWBAXgjAFJb691+a/S49LP0f32f8AwDl9Q+IPiDTfE8cWoz25tNFnuRrBsrX5LqELbbZFDFmjKC53MAx+4euRjX0rxXr0EdguqGOWbUPEH2R45oQrW0D2xnWMbcfMhwuTnPOfbrNM8L6Po80M2n2hSaFZQJXmeR280o0jOzEl2Yxp8zEn5etLqHhjSdUt5obu3kxNcrds8VxJFIsyqFDq6MGQ4UD5SO/qapaJX/rVX/D+rCdn+P62/P8AqxlxGz8Y6frtnr+m2F/bafqMlvFFNAJVOyNSGIbI3AuwyMVycOoa5pHwC8M3nhy/trGVLewidp7Tz9yySRpgfOoH3jnIORwNpww9F0nw/pehWc9rpNottDcStNKisx3OwAZuSeTgZ9+epNRnwzpB8Lp4d+yf8StIVgSDzHyqLjbh87gRgEHOQRnNJaL/AMB/Df7xrfXu/ubK99B4hXwvKjalpbagoZpJjpsnkumD8oj8/cDjvvP0rl9N16+0z4b+Al8P2lhbvqwtbXypRI8UCtbO/wAvzFjgoMAscjjIzuHcWGkW2naa1jC11LC27JuryW4c56jfIzNj2zxXP694Hg1DS/Dek6cq2+m6PeRyGP7RIjrCkMkahHU7twLLg5B4znNH6uP4b/16i6fKX5aEdg6eLdN1vSPGGnaZqcmkXhgdvsuYJT5SyK4jkL7WAkwRk4PfmqnhKPUG+COgjSLi0t5l0uIsbu2adGTy+V2rIhBPru49K63S9E0/RtPay06Axwu7PIXkaR5Xb7zO7EszH+8STT7DSbLTNFg0mxh8qxt4RBHFvZtqAYAyTk8d85qZK8Gu6X3pO5UXaSb8/uOK0rXrjS/hT4O/sOytILrVYbS1to5DIbe2LxbiTli7KoU4BbJOBu5zW7qeo6poPhp5tY1jTFvmmEcM8emTFHJ6ItusrSSP1wqtk1dl8K6LP4Zg8Py2KtpltHHHDCXbMQjxsKvncGXAwwOR61DL4M0afSV064W+niScXMck2pXLzxyAYDJM0hkU4yOGHBI7mtJvmk2ur/DT/gkRVopdl+P9WOYsfH+q3vhpGhgtm1WbWzo8Us9pNbQg43ea8LnzF+UH5CQScDIzmulvLfxIvhq4STU9Je+Xcxm/syUQtHt5Xy/tG4N/tb/wpB4F8O/2deWLWLvb3sqzzJJcytmVQMSKS2UfgHeuGJGSSea0dP0W00ywks7drqWKQkubu8muXORgjfKzNjHbOKzkrxa6/wDAX63fzLi7ST6f8F/pY4/Qdek0/wCHnga20m0trabWYbeCFTveG1H2cytwW3MAEIALZJI5qO88beILfUBo8MGmy6jHrkWmSTMsiQvHJbNOHC5LKw4BGWBx1Gcr148NaSNCs9HW022Vgsa2qrI4eDYMIVfO4EDjOc9eeTUUPhHRLdYPLsyWgvPt6yPNIztPsKeY7liznaxHzE8Y9BjSTTm30v8Ahdfpf7yI6Rt5fjr/AMAr+GdU1S6v9Y03XHs5rjTZ0jFxZwtCkqvGrj5GdypG7H3jn2p3izxfY+D7KC51GPek8nlqPtdtb84z1uJYwfoCT7Vq2+nWtpe3d3bxbJ71led9xO8qoUcE4HAA4q1Ua2Hoc/4T8Y2PjC1uJ9Oj2LbuEb/TLW4ySM9beWQD6Eg1J4k1u40ufSbKwSI3Wq3n2WOWZS0cIEbyMxAILcRkAZGSRzW5VTUdLs9Wt1hv4fMWOQSxsrFHjcdGVlIZT15BB5PrTYdDiLvxrr8GojRootNbUU1yPTHuGjkELxyWrTrIE3bgw4BXcQcHkZyuPqHxB8Qab4nji1Ge3Npos9yNYNla/JdQhbbbIoYs0ZQXO5gGP3D1yMdRrnw/s76HSrbToxDBBq41C9d7mUTTfupE3CUEuZMsmCWBAXgjAFbemeF9H0eaGbT7QpNCsoErzPI7eaUaRnZiS7MY0+ZiT8vWiO93/Wi/W/8AVhu11/Xf/gHJ6V4r16COwXVDHLNqHiD7I8c0IVraB7YzrGNuPmQ4XJznnPtsxGz8Y6frtnr+m2F/bafqMlvFFNAJVOyNSGIbI3AuwyMVqah4Y0nVLeaG7t5MTXK3bPFcSRSLMqhQ6ujBkOFA+Ujv6mpdJ8P6XoVnPa6TaLbQ3ErTSorMdzsAGbknk4GffnqTUtXi15fjaP8Ak/vDZp/11/zX3HnUOoa5pHwC8M3nhy/trGVLewidp7Tz9yySRpgfOoH3jnIORwNpww7m+g8Qr4XlRtS0ttQUM0kx02TyXTB+UR+fuBx33n6VYPhnSD4XTw79k/4laQrAkHmPlUXG3D53AjAIOcgjOasWGkW2naa1jC11LC27JuryW4c56jfIzNj2zxVVPf5rdQjaNvI4fTdevtM+G/gJfD9pYW76sLW18qUSPFArWzv8vzFjgoMAscjjIzuGpYOni3Tdb0jxhp2manJpF4YHb7LmCU+UsiuI5C+1gJMEZOD35qTXvA8GoaX4b0nTlW303R7yOQx/aJEdYUhkjUI6nduBZcHIPGc5re0vRNP0bT2stOgMcLuzyF5GkeV2+8zuxLMx/vEk0VPf533vb8LfqKPu8vklf8f+Acl4Sj1BvgjoI0i4tLeZdLiLG7tmnRk8vldqyIQT67uPSotK1640v4U+Dv7DsrSC61WG0tbaOQyG3ti8W4k5YuyqFOAWyTgbuc12thpNlpmiwaTYw+VY28Igji3s21AMAZJyeO+c1Ul8K6LP4Zg8Py2KtpltHHHDCXbMQjxsKvncGXAwwOR61UneUn3af53BbLyv+lilqeo6poPhp5tY1jTFvmmEcM8emTFHJ6ItusrSSP1wqtk1z9j4/wBVvfDSNDBbNqs2tnR4pZ7Sa2hBxu814XPmL8oPyEgk4GRnNdPL4M0afSV064W+niScXMck2pXLzxyAYDJM0hkU4yOGHBI7mmDwL4d/s68sWsXe3vZVnmSS5lbMqgYkUlso/AO9cMSMkk81K31/rb/gr5h2t/W//AFvLfxIvhq4STU9Je+Xcxm/syUQtHt5Xy/tG4N/tb/wrn9B16TT/h54GttJtLa2m1mG3ghU73htR9nMrcFtzABCAC2SSOa7DT9FtNMsJLO3a6likJLm7vJrlzkYI3yszYx2zioh4a0kaFZ6OtptsrBY1tVWRw8GwYQq+dwIHGc5688mhaX87fhe4Pp8/wAdjkLzxt4gt9QGjwwabLqMeuRaZJMyyJC8cls04cLksrDgEZYHHUZyrr/x5qXh7SPEqa1HHeajpKt9mn0/TLloZT5AlXzFUyeUATglnAI5yO3UQ+EdEt1g8uzJaC8+3rI80jO0+wp5juWLOdrEfMTxj0GLE/h/TLmPVI5rbcurpsvR5jDzV2eXjr8vy8cY/Ojp/XZfrf7yk1zJvb/gv9LGbeanpGueFZb2/uNT06whYGVyt1p0pIxwMhJCCSANv3jwM9KztMsvEq+BjCJbsXMl25t47iYNPHaPIQqSSMch1Q5LZZhgfeI56DXPDemeI7GC01aKZ4reZLiLybqWBkkXO1g0bK2Rn1689qs6ZpkGk2YtbWS6kjDFt11dy3L5P+3KzNj2zRpr/X9f5epKukl/X9f10OY1a/1vQfhhf3dzNs1SOMpE8xVxASwjVtw++BkNk8nuB0DNVE3gaw0TT/CttayT6rqi21xPfu7NKzROzTO4O5n/AHY5OcgY44I6zUdPtdW0u50/UIhNa3UTRTRt0ZWGCKzLLw2Ra2cOu3h1dtNuhPY3EiGOVMIUXzCrYkYBmGcKDkfLkZJ1v6fnqHT7/wAtP66Gfpnii9s31m38TBbqXTLmOITaTp07+askauD5KmVxjJBOSO/FReLdTfU/hvrWq6NfarpjWdlcyKWtHtJGZYiRkTRhwM4OVx9a6e3061tL27u7eLZPesrzvuJ3lVCjgnA4AHFVte8Paf4l082OrC6a2YEPHb3s1uJARgq3lOu5SD0ORUyTcWiotKSZXk0e08R+FrKDVVaUmGOVJ1crLFJs4kRx8yuMn5gc8n1qPwPqd3rHgvT7vUZVmuirxSyoMCVo3ZC+BwN23OPelbwy9noP9leH9Uu9Oid/3k800l5MseMFY3mdth4GCQwHPy5ORqaZptpo+l22nadCILW1jWKKMEnaoGByeT9a0k022uv9f1/wEZxTSSZaoooqSgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOR8UJpMtvbw6ppsGq3MrlLOzmRW8x8cn5sgAAZLdh+RxTowjvvDOg+IHTULRLOfcs43xzzrs2ghs7sIXIz6Z6it/xDH4aMUMnitNKMasRC2pCPAJ6hS/fgdPSpLmx0D+xYbW8tdN/ssFfKiljj8jn7u0H5e/GPWhDKXgiR5PDKgszwR3NxHbOxyWhWVhHz3G0AA+gFdDTY4khiSKFFjjQBVRRgKB0AHanUxGjRUF5eRWNuZ7jzPLB58uJpCPfCgnHvUkUsc8KTQuHjkUMjKchgehpAR3+3+zrneSF8pslRk4we3eqnh7zf8AhHrITRxx4gQII3LArtGD0GDjtzj1NWr21a8tWhS5mtt3BeHbux3HzAj9M0+2t47S1it4BtihQIg9ABgU1sxPdf12JaKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDj/FPiOy0CO1juJrSK7vWaO2a8kEcSYGWZ2PRQMcDknAHXI5fxGvhrSPAGm26ajp08kRthaXLyx75IxcIXZDn7vUnHAA9q7rUtWtdKRGuxcN5hIUW9rLO3HU4jViB7moZvEOmw6fbXokmuLe6XdC9pbSXG4YznEasQPc0LTXzQy7aXlrqFqlzYXMN1byfclhkDo3OOCODzU1Q2l3b39nFd2cqzQTIHjkQ5DA96moYi1fY/s+4yrOPKb5VOCeDwKqeHvN/4R6yM0kcmYEKGNCoC7RgdTk478Z9BU2qx2j6ZO2ovJHaxIZJWjlePCgZOShBIxnjvS6fdWlxC8VhnZbEQlfLZNh2KwHIH8LL/AC6g1ajLlbtp/X+YnuvmW6KgvL21060e61C5htbeMZeaeQIi/VjwKj03V9N1i3M+kaha38KttMlrMsqg+mVJGaOSXLz207jLdFFRXN1BZwGa7njgiBCmSVwqgkgAZPqSAPc1KTbsgJaKR22Rs2C20ZwoyTVG11eCbRbfU7tJNNimRGMd+BC8RYgBXBPDZIGM9TimoSaukBfoooqQCikdtkbNgttGcKMk1UsNRF9o8OoNa3VqJYRKbe4hKzR8Z2sgyd3sM1Si2roC5RUFlcteWUVw1vNbGRd3kzgB1+oBOD7Zqek007MAoqhqerwaVLYR3CSMb+6W0i2AHDlWbJyRxhD0z2q/TcZJJvqAUUUjtsjZsFtozhRkmpAWiqum3v8AaWl2179muLTz4xJ5F1HsljyPuuvYjuKtU5RcW0wTurhRRUVzdQWcBmu544IgQpklcKoJIAGT6kgD3NCTbsgJaKKR2CIzHJCjJwCT+Q60gFoqCyuWvLKK4a3mtjIu7yZwA6/UAnB9s1PTaadmAUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDkfE+sXOmxW1vZ292z3blGuoLOS5W1UDlyqKST2UEYzyeAaz7u/XQfDul2Gg2morDOpjW5/s+eVrVAOXeMIW3kngEDJOTwMV0GpX81giG30y71BmJylr5YKgdyXdR+uarLr63Gi2upaXp95qUVyu5UtxGrqMfxeY6gYxjGc5pdGPqSaPaWtv4dt7TSzcW9usOyJpYykq/7RWRchs8/MPwpNEstUs7eX+2tU/tCZnOwiFI1RATjhQOSOTnOOg6ZNjStTt9Y0q31Cz3eRcJvXeu1h7EeoNW6p7krYxfiDpN/rmh2+nafO8KXFyqTlI5m/d4O7PlSoduAQQcg5A4OCH/AA/0G60Pw2p1KaSW8vW+0zCRpiYywzsIllkORnBIIzgZGeT0F/ew6bptzfXJIhtomlkx12qMnH5VHp2pR6kLgxRyJ9nl8lt+OW2qTjBPTdg+4P1ru+sVnhPYL4L3+f8AVhNLmTZm+L7e2n0qBrptRiMN0ksM+m2xnlgkXOH2BHyOoPynr+I5m4n1i8stP1DULO5nt9O12OVJ006SO4ntxAyGRrcAvkO5HCjIXIUCuu13XU0JtN82NWjvbwWzSNJsEIMbuXPHIGzpx168VMde0o6HNrEWoW02nQxtK91DKJIwqjLHK5BxitKNWpSpR9y6ez9dLLS6b9beQNXdvL/NHEy2i6hourPrNlqlpDca41xFCNOe581REgXzYVVi8RxyPUDlSOItQ0I6z8KWjufDFnHLa3QltraDT/L3RLOpZ0gYFoy8Yb5OTzjviuwi8Rrb6I2qeIY7fQ4Hb9wt7dojFSMqHJwqOeflBbHr1AItb1CfwrZavbaSlzNNEk0tnBeJIQhXJ8twNkh6Y5UH19elYmvFxcY2tJW95Wuuif5u7XoSkm/W/wCf/BIIdJ8O6r4Ve0tNBgXTgWZLO40owKJMH5hFIi889cVzN74bN/8AA7RrS90f7Te2NlZP9nmtt8sewxmVQpGQ2xWBUcnpXf6dqFtqum29/YSia2uYxJE4GNykeh6fSrNccMZVoT66SUtXrdX0+fUqydn/AFqcNqkNgmj6Fd+HtHuLbTtP1hLia2t9KlhdF2SKzCDYHPLjovqe1Z11aahfaHqc02k6h9jm8Qi4urLyyJbi08tAcKDlgSASoySAy4zkV6VUF7eW+nWM95eyiK3t42klkPRVAyTV08dKLSjG7v3u97/ffqDje39d/wDMwLXSPDWqeGbi0svD0MdhvZxaXOkm3UybfvCKRF598Vi2mm36fDvwXBc2dw1tapbf2pZ+UxcxiAja0eMsFkKErgnjpxXUX/iO2t/Bdz4jsAL22jsmvIgGKeaoTcBkjIz7jj0o/tttN0Zr7xU2maT821P+JhuibIyB5kiR4J54x261UKtdLRNrm6vW9mn5313to7Csnb5/jY4ebQZr68ijg0y8h0OTxJFLb23lSReXELVlkfZwY4zJng4ByeMNz1fhjSY9G1vX7axsRY6e08L28UUXlw8xLvKAcdRzjvWvomoSaroVlfzQxwPdQLK0UU6zqu4ZwJF+Vx7jg1eqMRjask6Ulpa299mtezem/UaSdpf11/zOX8b6W2rN4fgNvNPCurxvOItw2xiKUEsV5C5IB7HOD1rB1DTf7Eg16y07w5HLpdxfWwW3+wPNbRIYl3yi3QZkAYDKp1Jyehrv7q9tbFEa9uYbdXbYhmkCBmwTgZ6nAJ+gNQWut6VfabJqFlqdnc2UQYyXMNwjxoFGWywOBgcn0p0cVVp00uVuK9bXvf79LA1d/wBef+Z5tZ6dqCeEbvT59MunsoNbWe4srXT5LZZrJgG2xREnK7uTGGJwCpGTiuxtdI8Nap4ZuLSy8PQx2G9nFpc6SbdTJt+8IpEXn3xWrreuWug6XLf3cdzLFFG0jC2gaQ7VUsSSBheB1YgU64u72XSobrRbW3uJZQrrHd3DQKFIz95Ufnpxj8auriq1ZKaTjd6O9lfS99lfz0CKUWn/AFv/AME45Y7ux+Dnh+yn0T7Y5tbSC6t7mze4FuNg3O9uvzybSACg5yewBq98N4Lix03U7K6tmthHfvJAi2D2kPlOqsvloxO0Z3fKGJU8HHSug8O6sde8N6fqpg+zm8gWYxB9+zIzjdgZ+uBWlUV8VLkqUJxs3Jt69b/0iVBWj5HO+N5JV8O+XHpSanHNPHHMktq90kSE8yNCnzSgED5R656A1wo8OPe/D3WbC80RZ5bPVFurSEaS8KiAvG7eRG27GVEgKKSRnaQM4r1yilh8fLD01CK2ae/b+rFSipNP+uv+Zwer6TpmqaX4dttC0ea201NaV5reOwls9i+VLuZkKqQpJAJIwc45zV7xHplpoXhAafovh+3nsproCW2Fo1xDArsWaQ26fNIoP8C469gDXXUVH12d472i72vvre78/Owcv5f5/wCZ5XpumqPCV9pms2t/BBFqxnt4rTQ5jbvGybkU22HzESWymSVOMlTjHVeGYtVbwckdjZ6foU6zuIlOnOkTx7jh/s+9GjLDnaWyO9dVRV18fKtFq27v3V/S3XzuJRS/r1/zMsW+v/2WYzqemm/35E406Tygnp5fn5z77/woFvr/APZZjOp6ab/fkTjTpPKCenl+fnPvv/CtSiuP20uy77L/AC/DYqxli31/+yzGdT003+/InGnSeUE9PL8/Offf+FAt9f8A7LMZ1PTTf78icadJ5QT08vz8599/4VqUUe2l2XfZf5fhsFjLFvr/APZZjOp6ab/fkTjTpPKCenl+fnPvv/CgW+v/ANlmM6nppv8AfkTjTpPKCenl+fnPvv8AwrUoo9tLsu+y/wAvw2Cxli31/wDssxnU9NN/vyJxp0nlBPTy/Pzn33/hQLfX/wCyzGdT003+/InGnSeUE9PL8/Offf8AhWpRR7aXZd9l/l+GwWMsW+v/ANlmM6nppv8AfkTjTpPKCenl+fnPvv8AwoFvr/8AZZjOp6ab/fkTjTpPKCenl+fnPvv/AArUoo9tLsu+y/y/DYLGWLfX/wCyzGdT003+/InGnSeUE9PL8/Offf8AhQLfX/7LMZ1PTTf78icadJ5QT08vz8599/4VqUUe2l2XfZf5fhsFjLFvr/8AZZjOp6ab/fkTjTpPKCenl+fnPvv/AAoFvr/9lmM6nppv9+RONOk8oJ6eX5+c++/8K1KKPbS7Lvsv8vw2Cxli31/+yzGdT003+/InGnSeUE9PL8/Offf+FAt9f/ssxnU9NN/vyJxp0nlBPTy/Pzn33/hWpRR7aXZd9l/l+GwWMsW+v/2WYzqemm/35E406Tygnp5fn5z77/woFvr/APZZjOp6ab/fkTjTpPKCenl+fnPvv/CtSij20uy77L/L8NgsZYt9f/ssxnU9NN/vyJxp0nlBPTy/Pzn33/hQLfX/AOyzGdT003+/InGnSeUE9PL8/Offf+FalFHtpdl32X+X4bBYyxb6/wD2WYzqemm/35E406Tygnp5fn5z77/woFvr/wDZZjOp6ab/AH5E406Tygnp5fn5z77/AMK1KKPbS7Lvsv8AL8NgsZYt9f8A7LMZ1PTTf78icadJ5QT08vz8599/4UC31/8AssxnU9NN/vyJxp0nlBPTy/Pzn33/AIVqUUe2l2XfZf5fhsFipp0eoRWu3Vrq2up9xO+1tmgXb2G1nc5685/CrdFFZyk5O7GFFFFSAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQByPiebVxFbW2kWNzcQzuRdzWksSyxRgdE8x1G5jxnPAyeuKivbZR4ZtbK30DUxBtCfY7K7jgkgAHAZhMoI+jNnvmtXUp9ShjT+yrK3u3JO8XF0YVUfUI5J/D8aybjxjBF4Ji8QRWkkrTwmSGz3AM7BSSuemAFJLegzS0Sdxq91YueHrC6tvCdnYaphJ0g8t1hYLsHQKGQDBC4GVxyMipNE0ZtHt5Uk1C9v3kct5l3MzlVydqgE4GB1I6n8AL1rN9ps4Z9u3zY1fbnOMjOKlqpXu7kq1tDJ8d+Gm8VaXZ2HzmEXaSTBY4Hwoyd2JUbnjAx/e5yMineBPCsXhPw3HbBEW6nxNdFYYUxIRkr+6RQQCTjOcDjOMCtjU9XsdGihl1OfyIp50gSQoxUOxwoYgYUE8ZbAyQM5Ip2n6pZ6qs7afN5yW8728jhSF8xeGAJGGweCRkZBHUGur63VeH+rL4b3/r71+AOKupP+t/+CYvjPTbvUE0WSy0/wDtAWOqJdzQb0UlFjkHG8gE5K4GepHIGSMqXw7ql54V8VMbNba61e4N1bWEjqdu1IwFcqSoZzGScEgbupruqKqnjalOEYxS09e9+9t/K4OKbu/63/zMuw1e11/R5pdPYlwGilgkGySCTbzG6nlWGRwfUHoazNEuE8IfDrRIdfzb3FtZQWzQJ+8keYRgeWirne2QcBc5xWrrfiHS/DkFvNrV2LWO6nFvCSjNvkKlgo2g8kKcepwOpAqsvi/RDoB1lrqSKzEpg/fW0scplD7PLETKJC+7gLtyT0FZKtGzgl7t099dOl7efYLPS/8AX9W/MPB+n3Ol+E7O2v41hufnlliU5EbSOz7MjrjdjPtS+JtFvNbs4YbHUPsLxybmfdcDcMYx+5niP5kj2qF/HXh6LTYb2a+kiimuvsapJayrKJ9pbymiK71YgZAIBORjqMufxnow8LX+vQzSyWtgHE8ZgeOVXUf6sxuAyucgAEA8j1pPET9s660ldv7/APhwS0UR3hnQ7zQ7eeO/1H7c0rBlbdcnaAOn7+eU/kQPajxRYalqtta2WmPDCrXCyzzzx+aiqh3BSgdS25go4PTOfQ5934vl8L6RYXvjhYbVtTvktY47JS62m9SVEjsRuxtOXCgcj5cAmtO58UWNra61PLHPt0aQRTKqAtKxiSQCMZ5JEiqAcfNx703iKntfbS1kv+B8tLoFFWsjlb7TNV0T4a+MdO1PyZYEtrqe0uLePykZZEZ2QRl2ZdrlupPBGPQdjY6nYa3ozyaNfWt/HsMfmW0yyKG2/dyCRnkfnUmiaxba/odpqtjvEF1GJFWQYdPVWHOGByCOxBq9WtbEuqvfXvXvdbbJPTztff5BHRpr+rnO+Horrw58M9OivbdRd6bpUYlgaVQN8cQypflRyMZ6d61dFv5dU0Gxv7i1azlureOZ7dm3GIsoJUnAzjOOgqh4q8WWHg/TEvtUgvponlSICztJJyCzBRnaMLyw6kZ6DJwC648UWUXh9tWWHURCSUVW0m68wNzy0Ij8wLx97bj3rCrWVTmnJat3v+n4hGNrRRB4t0aXWpdBVLVLqG11WO5uFk2kKixyDdhuuGZemTWPr3hbVdQi8XfYbi4szqEP7hLfyMXh+zBNr71YqNwxkFTz171oWvjawsvB+iat4ivYPM1O3R0ewt53jmcxmQ+Wm0yY2gkBhnA9asxeOvDc2m3GoRakrW1u8aM4hky5kAMYjXbmTduG3YDnoMmuinjKtG0Ul7unfqn+aBatSX9b/wCZU16w1W38C6hpduupeIbu+tpYEdzaxtEXjKjd/ql2g+gLc96vafrMOl+GrebxIn9gLCEgJ1K4gUMwUchlkZecHAznjpQPGehnSf7Q+1S+V5/2byTaTfaPOxny/I2+Zvxzt25xzjHNaenahBqlil1arOsb5AFxbyQOMHHKSKrD8RWbxHNDklFWvfTR6/gvuEopW8v6/Qxvh6QfhzoJByDYxYI/3a6Os3W/EOleHILebWrtbWO5nFvCzKzb5CpYLwDyQpx6nA6kCs//AISKXW9Lnn8HNFNd2cwWez1K3mtnb5c+WQ4VomIKkMVYY7HORjWqe1qSqd236X/4cpJ7HRUVQ0LWbbxBoVpqtiHEN1GHVZBhkPQqw7EEEEeoq/WewbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQByPiey1jUIra30tLSS0Zyb2Ke5eBpkxwgZUfAJ+9xyBjuaq6x4Yu9Z07et7Jpd4LGS1W2tXjkt13Dpl4t2DhQSoU4Fa+rtqCW3madeWNmsYZ5pbyBpFCgezpj3JNYlz4j1VvCmkanDbC0lvHX7UWsproW6FHbd5cZVsEqoyegbmk7NP8ArceqdzodMtZLHSra1nna4khiVGlcDLED2AH6CrVVNLuftmlW9x9qgvPNQMJ7dCkcme6gsxA/E1bqpXbdyVZLQq+LdHufEGgSaPbm3SC9YQ3jzDcVgP39i4ILkcDPAzu5xgx+DNEvPDfh1NGu5YZ4LJ2is5o+HeDqnmDAG8ZIJGd2N3UkC5r2vW3hzTlv9QjmNmJVSeeNQVt1Y48x8kEIDjJGcZyRgEjF1vxYbn4b+INc8PtLCbS2uDaXbopWVo1OJEByGTcDgkc4zggglLrb+v6/VlW5ml/X9f8AAL3izwhY+MLKC21GTYkEnmKfsdtcc4x0uIpAPqAD70nhPwdY+D7W4g06Tetw4dv9DtbfBAx0t4owfqQTUF1rI8G6Xp41e81bXZtRvFtoX+zwtLvZGYLtiSMbfkPOCRnk45D7bVJPFdpe2ltLq3hq+sJ1S4Qx2zTJlAwGSJYypDA5GT9KTfKm/wCun/AF8STJ/EeiXOsXugTWzxKum6mt5MJCQWQRSJhcA5OXHXHGeareOvDE/inRbaGyn8m6sryO8hBnlgWQrkFDJEQ6ZDH5l5BwcHpVjwPqN3q/gPRdQ1Gbz7u5so5ZpSoXexUEnCgAfgBV/Vte0jQIY5td1Wx02KRtqPeXKQq7YzgFiMmnKPK7Pvf56f5Du7/K35/5nnGraJf6DF4dNtp1rBqNz4lScxyazc3qzMLWVcvPKm8ZVQOFOMDg9K35PBup3fhXxLHdT20Or65P9qAhZnht3VEWJNxALAeUuW2jOTwOK6fSdf0fX4pJdC1ax1OOJtsj2dykwQ+hKk4NGu6qNE0W4vhCbmRAFht1baZpWIVEBPQsxAz70bJ/10X+SDdr+ur/AMzCurNvG9npf9oaZJaJZ3j/ANo2N/GRuBtpYmVCAVkGZR8ynaRnnIxWNpfw71u2tJ9Ou9eYWraqt5HeQbWufKihjSBWEkbIWBjBYkHO0HqTi1qPja6l0XwpqljDNAdQ1UWt7ZIglkBEcweHkdRJHjd8v3c5AzVvV/GD3Hw98S6jpcdzpmp6Tbzq8F0kZktplj3rkAsjcFWBBYEGn3a/q1n/AJArtxj3/Vsk0bRNX8I6Pr8cN7/acbPLeae9wm6XzHUs6ukSKMGTLAIMncRjPXe0OfULnw/p8+tQR2+oyW0b3UMYIWOUqCyjJPAOR1NY91rI8G6Xp41e81bXZtRvFtoX+zwtLvZGYLtiSMbfkPOCRnk45GhoPiGPXGvYmsLzTruxlEVxa3gTehKhlOY2ZSCGB4Y0d/l+H/DondJ99fv/AOGZF4x0S48Q+FrjT7J40uTJDNEZiQheKVZArEAkAlMEgHGehq3bjU7zRpU1a1tLS7kV08u2umnjAIwDvaND/wCO/nWjWP4i8S2vhqOxa7tru5a/uxaQx2kXmMZCjMMjI4+QjPbPOBkiGk04vr+uhabTuumpz0XgrUU8KeEtMM1r52i2phuGDttdvsjw/J8uSNzA8gcflWXdfDPU7jSBELyBbq3bT5oBHczQq728HlOrSR7XQNk4ZckcHHauqg8Z2r6NrV9eadf2MmiIz3lncLGZVAj8wbSjsjZU8Yb64qXxfrGpaJ4Tv9W0i2tZ3tLSW5YXUrKAEQsMBVO7OMYyv1qpy3m/J/dqvzJjHVJea/K5gweEb238PzwL4e0ue5uLwXMsV5r13c5YIEEq3MkRkSQBQBheAOCKcPh5LrPhO10zxXqLXE0FzJOhMUF95SsTti33ULl9oON5AY9/SulmiutZ0C2eDU7nSp5Y0laaySJm5XJXEqOuOfTPHWq3gjUrrVfAOi6jqc/nXVxZRyzylVXcxXJOAAB+AAptW5k+lv6/D+kCd0mv6/q5g23w0i0Z9IXRZ4jHa6sl/ceZaW1sSqwyR4UW8MYY5cfeHTPPatSRLrw3qWu6qLObUW1S4h+yWtmhZ2ZYQmHJAWMZU/MxCgYyckCpP+EgntvDN5r0sbXKTyZ06zXCGRWISFQcdZGw2T0Dj0rH1HxtdS6L4U1SxhmgOoaqLW9skQSyAiOYPDyOokjxu+X7ucgZpeXmvxsv0H59k/wuzo/COj3Gg+FLHT72VJbqNWed4/umR2Lvt9tzED2rZrjtX8YPcfD3xLqOlx3OmanpNvOrwXSRmS2mWPeuQCyNwVYEFgQatXWsjwbpenjV7zVtdm1G8W2hf7PC0u9kZgu2JIxt+Q84JGeTjkP+vv2FayXz/Dc6eisjQfEMeuNexNYXmnXdjKIri1vAm9CVDKcxsykEMDwxpPEXiW18NR2LXdtd3LX92LSGO0i8xjIUZhkZHHyEZ7Z5wMkIDYorm7bVJPFdpe2ltLq3hq+sJ1S4Qx2zTJlAwGSJYypDA5GT9Km8D6jd6v4D0XUNRm8+7ubKOWaUqF3sVBJwoAH4AULW/wAvxA3qKxPF3iKPwv4budRaKeaULst44bWSffMQQikRgkAtgZOBkgZyRUPg/wATHxRZ3lyIpkiiuWihaWxmtt6qAC2JAM/OH6dOAeQaFrcHpY6GiszXtetvDmnLf6hHMbMSqk88agrbqxx5j5IIQHGSM4zkjAJGTP8AEDTIdOtL6O01C5t77UTp9o9vCH+0OFY70AbJjJRgG9s/d+aj+v6+8DqaKyNB8Qx6417E1headd2MoiuLW8Cb0JUMpzGzKQQwPDGrGra9pGgQxza7qtjpsUjbUe8uUhV2xnALEZNAF+is/Sdf0fX4pJdC1ax1OOJtsj2dykwQ+hKk4NY/jXXLzQ5vDzWRlZbvVltp4oYg7TIYZW2DPTLKvORjHJAzR1S9PxDo36/gdRRXJSfEXTobWJ59N1SO6fUhpj2IgV54pzGZAGCsVKlQDuUkfMDnGSNXQvEUet/bY3sbvTbqwlEVzbXgj3ISocHdG7IQVIOQx98Uef8AX9aoDYorCstWvX0afVxaXN/HcS77KzthGH8ngKcuyj5sF/mYYDAdqs6Br0PiCxmnhtri0kt7h7ae2uQnmRSIeVOxmU9QcgkYNAGpRWP4i8S2vhqOxa7tru5a/uxaQx2kXmMZCjMMjI4+QjPbPOBkjIk+I1jbKqXuj6vb3h1BNPayMMckqyvEZUP7t2UqVHUMcZ5wASDf+vT/ADQ7f1/XodfRWRoPiGPXGvYmsLzTruxlEVxa3gTehKhlOY2ZSCGB4Y1r0CCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOT8RaLfaybNbPUILeGCQySwXFqZo7gj7oYB0OAecZwTjPSrc8GsPp0SW2oWcV4D+9mayZo2HPRPNBXt/EelR68GTTzcHWZ9JhgBaSWCONi3YD50bv2AySQK52817XY9O8P2M0U8OqajG73AtIozMAigkIJD5asdy53HA5HXFLoM6fRNKj0TRbbT4ZGlWFSDI+MuxJLHjpkknFX6zPD96t/osUyz3M7KzxyNdxqkodWKsrBAFyCCOBjitOqe5KGeIdHk17S/wCzvtbW1rNIBeBEy08P8UQbI2buAW5OMgYJBHPX3hC8sPhbrnhrS52v1ktZ4dMgfCtDGyEJAXZsMFJIDHHy4B6ZO9r2u/2O2n28Nv8Aab3Urn7NbRF9iltjOxZsHChUY8AnpxXP3PxAuredbD+wxJqo1ZNLkt1vB5YZ4DMkgkKcrtAzlQRzwcAGV1S/rb/P8X3ZabTT7a/n/X9I0ZNOufE8Wi3V5Z3eiyaTqC3X2e7EMjTBYnTGYpGUA+ZnOc/L05zU0lncaDe6vqtpZXeryanNE32S0ESPEFiCZ3SyIpHy56g89DUvhvX5ta/tC3v7JbG/026+zXMMc/nR52K6sj7VLAq4PKg9Rirmraza6LDHLeRX0iyNtAs7Ce6YHHdYkYge54okk16/rb/gEx0+Wn5lDwPp13pHgPRdP1GHyLu2so4poiwbYwUAjKkg/gTV/VtGtdahjivJb6NY23A2d/PasTjHLROpI9jxSaTrVrrUUklnFfRrG21heafPakn2EqKSPcZqDXtd/sdtPt4bf7Te6lc/ZraIvsUtsZ2LNg4UKjHgE9OKqTu7vqBPpOi2uixSR2ct9IsjbmN5qE90QfYyuxA9hiq/iDw7F4j+xxXtxPHaW83nvFbzSQvI4GEIkjZWXaSTx1OPTnAufiBdW862H9hiTVRqyaXJbreDywzwGZJBIU5XaBnKgjng4AO54b1+bWv7Qt7+yWxv9Nuvs1zDHP50ediurI+1SwKuDyoPUYpfF/Xp/mg+HT+uv+TOfb4bPayL/Y2tSW0MOqrqttHdo92Ul8l43DO8m91ZmDHJB+8ARkETal4QvY/AHiq0imGp61rkU8kroghSSVohGiIrMdihVUDLHuSea2PFvi3S/B+g3OoapeWkMiQSSW9vcXSwm6dFzsQnqTwOAevSh9UsPEnh57vQfE8NvbRtmbUNPlgmEQUZZdzh0HBGcjgUbJ2/rb/JFLSSf9f1qVpNOufE8Wi3V5Z3eiyaTqC3X2e7EMjTBYnTGYpGUA+ZnOc/L05zViTRbuxbxHf6bcsbzU0DwKsS5hkSEIuNx2tyoPOB2PrTfBV5qd/4dE+ru8xM8otriWIRSXFuHPlSMgACllweAvrgZxXQUSV1bv8AqkTHS3lp9zKGhx6jD4f0+PXJln1JbaMXcqAAPLtG8gAAYJz0Aqvrmhf21daPN9o8n+zL9b3Gzd5uI5E29Rj/AFmc89OnNa9FNu7v8xLRW+Rx+ufDnS/EKa//AGpFaXMmqr/o8lxZrKbF/JEW9Mnr8objb6e9Tav4LV/B914e8J/2VoFrexSRXOzTNysrpsZlVJIwH/2ju6dK6qipsrWKu00+xgW/9s6B4cjivID4guYyIkXSrdLU7AuASJ58HGOTv7jArN0XRNUh+Gug+H7q3MEptorbUP3ikwxhf3i5B5JxsypON2e1djRVXbbb6/oJaKyMbXvDcHiBbKC6nmhsrWXzmhtpZIHdgMJiSNlZQpJOB1OPTnnW+Gz2si/2NrUltDDqq6rbR3aPdlJfJeNwzvJvdWZgxyQfvAEZBHd0Utnf+un+SDpb+v61ZxWpeEL2PwB4qtIphqeta5FPJK6IIUklaIRoiKzHYoVVAyx7knmr8mnXPieLRbq8s7vRZNJ1Bbr7PdiGRpgsTpjMUjKAfMznOfl6c5rpqKP0t+GwdLev47mDJot3Yt4jv9NuWN5qaB4FWJcwyJCEXG47W5UHnA7H1qv/AMI9qOqaT4XbXL9TqWkzRXd3IkQIuJRC6OBjAUEuTkDt0rpqKFp+H4B/wfxOfks7jQb3V9VtLK71eTU5om+yWgiR4gsQTO6WRFI+XPUHnoad4H0670jwHoun6jD5F3bWUcU0RYNsYKARlSQfwJreooWia/rQDC8U+E9P8WQWUOp21nPHa3An23Vok4bAI2jd0ydpPqBjvU/hnw5p/hXQLbStKtoII4kUSNDCsXnOFAMjBf4jjk1rUULS9uoPXcy/EOjya9pf9nfa2trWaQC8CJlp4f4og2Rs3cAtycZAwSCMO08BtZ2ej2Kaqz2Wi6p9sso3hLNHAI3RbcsW5C+YcN/dAGDjNdhRQtP6/r+r92H9f1/X5IzNO0b7BrWr6h5/mf2lLHJ5ezHl7I1TGc85257VJq2jWutQxxXkt9GsbbgbO/ntWJxjlonUkex4q/RQBn6TotrosUkdnLfSLI25jeahPdEH2MrsQPYYql4n8PT68NLezv1sbjTb0XkTvB5qswjdArLuXj58nBBwMAjORu0UAcfB4DcT2t5d6oJr9dZGr3cy2+xJnELQiNF3EooUrjJY/Kc5zVm98OXJvdU+zyl4dcuYvtRAC/Z4UiCuM5yxYJtyBxvz2rp6KPL+un+SDrf+ur/UwPF3hlvEuiRWEF1HarFOkpjmt/Ot51XP7qWIMu9Dn7u4cgfQ5GheGdc8E2lza+HLbRdQtru6a6MDs+nLbMyqGVAiShlJBIGF2jjLZyO2ooWl7df+B/kG9vL/AIP+Zy0uk654gu9Mm1630/TP7Kv0vYhZXj3fn4jkQq26KLZ98HI3dDwKS78E/avEq6t/aGzGqQ6h5Xk5/wBXbtDszu77t2cdsY711VFH/D/PT/JB/lb5a/5szNO0b7BrWr6h5/mf2lLHJ5ezHl7I1TGc85257Vp0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcxregDWp7Kb+0byyeykMsf2byyCxGAWWRGBIGcccZNF5oAvYLPzdRvFvbMlor9PLE3Iw2Rs2EEdRtxwD1Gab4kWy+wJJqE96gVtsUVlcyQyTSHoo8tgWPoM46k8DNZs9ncR+EdPGvzXU2qoiwqLa/mg82ZuAGMTLu7ZJBwAxo6f1/X9IfU39M02HSbBbW2LsAzO8kjZaR2JZmY+pJJ9PTFW6qaVYtpulW9m9zNdPCm1pp5C7ue5JJJq3Te5K2DWNFttZjtvPeWGa0nFxbXEJAeGQAjIyCDlWYEEEEE1yeveBJnk0s6Vc3sl0+uLf6hqRliE6gW8kYcAqEwv7tQoUjHVTzU3xZGqf8IPINLvLe2jkubeG4Wa3aQyJJPGm0ESLgfMdwIO4EjjOadGk/gnT9K0bT7XRIbvV9RMKPp+mGztov3bSM7RCRizbYyPvjJI9OZjvfzX36P/Ip7fJ/dZ/8E6HQtBt9Btp0hmnup7qdri6urllMk8hAG5toCjhVACgAADAqXVtB0jX4Y4dd0qx1KKNtyJeWyTKjYxkBgcGuLvPG3iC31AaNDBpsuox65Fpkk7LIkLxSWzTiQLuLKw4BXJBx1Gcrr+INR1/Q/hzqV3f3NgdWjVkiubWJo4l3PtR9jsxBAYEjcRkdcUbxv/Wyf5NBaz16/wDB/wAjc0nQNH0CKSLQtJsdMjlbdIlnbJCHPqQoGTSaxottrMdt57ywzWk4uLa4hIDwyAEZGQQcqzAggggmsyXw++heFZ7TwzLbW8xBluLi/ge6a6O3DNIRIjM7YHzFjjGMdMO+HrxyfDXw5JBbx2scmmW7rBEWKRgxg7QWJbAz3JPvVb38rfr/AJE7Jed/6/ExNe8CTPJpZ0q5vZLp9cW/1DUjLEJ1At5Iw4BUJhf3ahQpGOqnmup0LQbfQbadIZp7qe6na4urq5ZTJPIQBubaAo4VQAoAAAwKXxAmoPos/wDZNzaW8wUlmu7Z50ZcHK7VkQgn13celcZpuv3+l/DfwCPD1lYRPq32W28mZpTFAjW7udp3FuCgxknI4J53BR6pd1+On3aL+rFS1s32f4a/q/6ud1q+mw61ot7pd00iQXtu9vI0ZAYK6lSQSCM4Poao+JfDMXibSIdPl1C9sY4p45t9oY8uUOVVhIjKy5wSCOSBUHhnVNUur/WNN1x7Oa402dIxcWcLQpKrxq4+RncqRux9459qf431S60bwTqd7p8iRXSRbYZXGVjZiFDn1xuzj2pPa4eTNPTLKewsxBdaldanIGJ+0XSxK5HpiJEXA+lW64rVRN4GsNE0/wAK21rJPquqLbXE9+7s0rNE7NM7g7mf92OTnIGOOCLOmeKL2zfWbfxMFupdMuY4hNpOnTv5qyRq4PkqZXGMkE5I78U7r+vl/mKz/r5/5HWUVx3i3U31P4b61qujX2q6Y1nZXMilrR7SRmWIkZE0YcDODlcfWtaTR7TxH4WsoNVVpSYY5UnVyssUmziRHHzK4yfmBzyfWjXXyt+N/wDIO3nf8Lf5m3RXNeFNT1XWPh7b3Zlt5tVMMsQlkBEUssbMgdgvRWKgkD14qt4vGsx/C6/u7nUmsNVtNKlnnbSyFjaZYSTtLqXChhkYIPqaUnypvsOC5ml3OuoqppLtJotk8jF3a3jLMxySdo5NRa1oljr+n/ZNRiLKrb4pUYpJBIAQJI3HKMMnBBB5PrVSXK2uxMXzJM0KK5LQdZvtS+GcN9eB7u8MMsMstsVUuyM0ZlHIxnbuwPXgGt/Rba3ttGtVs44UjaJXJhXarkgZb8fU80dwvsXqKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5zVdA0/Wpraa/WfzbQsYJILqWBkLDB5jZTyOKmTSrVPseRLIbIloGlneRlJUqSSxJY4JGWz1rO8UJpMtvbw6ppsGq3MrlLOzmRW8x8cn5sgAAZLdh+R53WdJuYdL8NaAxtdTv03t5Wo7jbXASP5g3UkjcNuQeme1LoM7+isDwPJFJ4Ps1h8weSXhdXIO11dlZVIJG0MCF5PAFb9U9yUTappVnrNibPUofOtzJHIU3FfmRw6nIIPDKD+FGo6XZ6tbrDfw+YscgljZWKPG46MrKQynryCDyfWrdFIZjQ+EdEt1g8uzJaC8+3rI80jO0+wp5juWLOdrEfMTxj0GLetwadc6DfQa4YRpskDrdGdwiCMg7izHoMd+1ZfjnUb3R/DEmpaXdpBdWsqPHA6BlvSTgW/QtlycArzu29RkHmLzV7rX/gV4i1W/uN89zZXjNbbNv2EhWX7ORgHcmMMW5LZxxgUbpr+un9fL0KiryXn/X9f8OdR4WuLW88OyrF4ktPEdlGzRJeQuhIjCj5ZHRirOAeWAXgjjPJmt9S8NeGvClg8ep6fY6HFDHDaXEt4ohKBcIFkZsNwODk5qXWrS4vPDrpaalc6dIsW/zbZInZgFPykSo64PfjPvVLwDO1z8M/Ds7rEjy6XbuywxLGgJjBOEUBVHsAAKJN2k+1v1IjtHzv+huQz2up6es1tNFdWlzHlJYXDJIhHUMOoI7iqMfhnSIrDSbKO0xb6MyNYp5j/uSiGNec5bCsR82evrXHaFr994f+EnhWbTtM/tF5LKJGTbcttGzOf9Ht5j+YA9+1dN4T8QX3iC1uJdR0v+zmicKq7bpd4x1/0i3hP5Aj3qmrSaXT9NhvTc1rfTrW0vbu7t4tk96yvO+4neVUKOCcDgAcVDcLpXiPTtQ0ySW3vrdt9peRRyBthK/MjYPythhx1GRWZ8Qby4sPh9rFxaTtbSLbkGdB80KkhWcehVSTntjNU/E8lr4W8F2+k6JHNZJcMllbjTbZ5ZYUPLyIkasxKoGbIB5wTUPaw1voXYdGgtbfTbfxNqkeoyWt6H0ua4/cylxGwVWwwEsm0ychQCOduRmtQ2+m6O+oarIY7UT4mvLiWXamEQLuJY4UBQPQcV5Ydan1bQ/CdlNfXEOoab4lWxlub63eOZgIJvLlaOUBgzxsh+YfePQjg6up6lf3fw0+IFlf3rakulrc2kN86IjzL9nVyGCALuVnKkgAcdM5qt7/ANdI/wCaBL3ox7/5v/JnV3kPhrx/oThdSXUtMBZJX03VHSNvlwyO0LjcMHlWJHPSmW+iRP4WitPCWtzW9lckOL03L37mIrj9zJK7BeMYPzKOcLzmr2tWlxeeHXS01K506RYt/m2yROzAKflIlR1we/GfeqHgW9T/AIVfoF9eNb26HSoJpWVEhiQeUGY7VAVFHPAAApWXveVv1/yJTbUX3v8Ap/masOhabb+HF0GG2C6att9lEAYj93t2kZznp3zmqV54N0W+8N22gTQ3SaXbQi3jt7e/nhBjC7NjFHBddvGGJzWxbXMF7axXNnNHcW8yB4pYnDI6kZDAjggjuK5vxvqGq2cnh620W+Wxk1DVktZpWgWX92YZWIwe+UGD2IHUZBHq7Pq1+f8AwRra66X/AK/A29H0e00OxFnYNdGEHIF1eS3LLwBgNKzEDjpnFN1qyvtR0/7Lp2pHTTI2JZ0hDyCPByIyThW6YYhgOeO44XUvEviLw9ovi+2jOoa7NpaMbbUBHaI9sDbCQNKCY1YBifuoTgcg99Lxiz658Ktdu9R03UdLmt9OuXjhnuVVmIhJDEQSsrDPQMeo6VM37rluVCPvJLqbt2NA8LeFI7G8vLTRtKjhFpG9xcLEqgrgDc55OM98mrmiMH0a2eO9tr+FowYbi1XEckePlIwzA8dwcGl0n/kX7H/r1j/9BFY3w2/5Jj4d/wCwfD/6CK1kmpST/rczjrFM6eiqmp3s9hZma10y61OTcB9ntGiVyPXMrouB9c0ml3txqFn513pd3pcm4r5F20TPj1zE7rj8c+1QUXKKw/FY1ptMij8O3CQXDTDzcMgmeIAlhD5isnmZxjeNuM5x1HNweKbqXTfDbWN/fyGbXm06/bUIIFm+VJt0beWvl8OijcnXHXrQtXb0/Gy/UHor/wBdX+h6BRXlt/4s1m/aVNI1wQxHW7y0WeCGKQiKK0aQKu5SMh16kH8ai/4SbXZvh74knvtUZp0sLOdbmOFYzbCeFTIVCjouWYEkkdyaW8brsn96ug05uV+f4OzPULa+tL1p1s7qG4a3lMMwikDGJwASjY6Ngg4PPIpZ7u2tXhW5uIoWnk8qESOFMj4J2rnqcAnA7A1y3ieS18LeC7fSdEjmskuGSytxpts8ssKHl5ESNWYlUDNkA84JrjTrU+raH4Tspr64h1DTfEq2MtzfW7xzMBBN5crRygMGeNkPzD7x6EcF7uy7pfil+q/pB0u+zf4N/oeuXNzBZWstzeTx29vCheSWVwqIoGSSTwAPWq2m63pWs2TXmj6nZ39qjFWntbhJUUgZILKSMgEVwOp6lf3fw0+IFlf3rakulrc2kN86IjzL9nVyGCALuVnKkgAcdM5rttatLi88OulpqVzp0ixb/NtkidmAU/KRKjrg9+M+9KT5Y83lf9SkrtLza+6xo2t3b31pFdWU8VzbzKHimhcOjqehDDgj3FS1zXgW9T/hV+gX141vbodKgmlZUSGJB5QZjtUBUUc8AACugtrmC9tYrmzmjuLeZA8UsThkdSMhgRwQR3FXKPLJx7GcXeKZLVeDULK6+0fZryCb7LIYrjy5VbyXABKtg/KQCDg+tYnxBvLiw+H2sXFpO1tItuQZ0HzQqSFZx6FVJOe2M1Ne6HFaeEf7N0C6l0W3tYj5RsYoT8oU/LiRHUg9+Mn1rOUuVNlxV2kbFrd299aRXVlPFc28yh4poXDo6noQw4I9xUtecx+I9T0n4D6dqemaZPPdNoAn82xjto47VxAGDmNmRdoPO1Fbpjb0FXvGLPrnwq1271HTdR0ua3065eOGe5VWYiEkMRBKysM9Ax6jpV1Pc5vIKa5+Xz/r9Tsbm+tLIwi8uobc3EohhEsgXzHIJCLnqxAPA54NT1lW+n2mq+Ebex1K3jubWezRJYpVDKw2jqDWN4Qvbm8+FdtcT6r5UotZUTU5wGwqMypO27hvlVWJPB696JrlbXYmL5kn3OuqnqmsaZodn9r1rUbTTrbcE867nWJNx6DcxAzx0rk9c1LWLbRPB8OleIYbifUb6G2uNUS2jdLpDBIzSKgO0bioYbTgcdRkHR8L3Oorqev6VqWpS6mun3Eaw3E8UaSlXhVyG8tVU4JOCFHHrUy0Tfb9Lf5j7ef/AAf8jorW7t760iurKeK5t5lDxTQuHR1PQhhwR7ipa4Twxptxq3wa8PWtnMInayt9xZyFZMAOGAHzAqW+XjPHI6iXVxq3hP4f/aINRQahZzK6QnMkd5821LZQVLLvG1VC8hsctzuqXuyaHY7G5uYLK1lubyeO3t4ULySyuFRFAySSeAB61X0vWdL1y0N1ompWmo24YoZrSdZUDDqMqSM8jj3rg7zV7rX/AIFeItVv7jfPc2V4zW2zb9hIVl+zkYB3JjDFuS2ccYFdF47vLiw+G+qXFpO1tItqAZ0HzQqSFZx6FVJOe2M0mmkHb5/hb/M34NQsrr7R9mvIJvsshiuPLlVvJcAEq2D8pAIOD60+1u7e+tIrqyniubeZQ8U0Lh0dT0IYcEe4rHvdDitPCP8AZugXUui29rEfKNjFCflCn5cSI6kHvxk+tctH4j1PSfgPp2p6Zpk8902gCfzbGO2jjtXEAYOY2ZF2g87UVumNvQU9NfK343/yCKbaXf8A4H+Z6NUFzfWlkYReXUNubiUQwiWQL5jkEhFz1YgHgc8GuO8Ys+ufCrXbvUdN1HS5rfTrl44Z7lVZiISQxEErKwz0DHqOldHb6faar4Rt7HUreO5tZ7NElilUMrDaOoNLv5W/G/8AkJWaT73/AAt/matFcj4Qvbm8+FdtcT6r5UotZUTU5wGwqMypO27hvlVWJPB696q65qWsW2ieD4dK8Qw3E+o30NtcaoltG6XSGCRmkVAdo3FQw2nA46jIJ1t5pfeC2u/N/cdZqmsaZodn9r1rUbTTrbcE867nWJNx6DcxAzx0oGsaYbW0uRqNoYL5lS1l89dtwzDKhDnDEgEgDOcVieF7nUV1PX9K1LUpdTXT7iNYbieKNJSrwq5DeWqqcEnBCjj1qt4G0+01X4QaHY6lbx3NrPpkSSxSqGVhtHUGjo36fjf/ACGdhUFzfWlkYReXUNubiUQwiWQL5jkEhFz1YgHgc8GsL4e3k994B0ue6uHun2Mi3EnLTIrsqOT3LKFOe+c1t6hp9pqunT2OpW8dzazoUlilUMrD3BoeglruWaK5v4e3k994B0ue6uHun2Mi3EnLTIrsqOT3LKFOe+c1talfxaXps97OGZIU3bVGWc9lA7knAA9SKHoC1J0nikkkjjkR3iIEiqwJQkZAI7cEGmT3dtavCtzcRQtPJ5UIkcKZHwTtXPU4BOB2Brj9enn8PeCxBJLcrqusXASeawhknmR5OZXjWNWY+XGCFIHARa5Q61Pq2h+E7Ka+uIdQ03xKtjLc31u8czAQTeXK0coDBnjZD8w+8ehHBFq7eaX3tX/P5h0v5N/cm/0+R65c3MFlay3N5PHb28KF5JZXCoigZJJPAA9arabrelazZNeaPqdnf2qMVae1uElRSBkgspIyARXA6nqV/d/DT4gWV/etqS6WtzaQ3zoiPMv2dXIYIAu5WcqSABx0zmu21q0uLzw66WmpXOnSLFv822SJ2YBT8pEqOuD34z70pPljzeV/1KSu0vNr7rGja3dvfWkV1ZTxXNvMoeKaFw6Op6EMOCPcVIzKilnIVVGSScACub8C3qf8Kv0C+vGt7dDpUE0rKiQxIPKDMdqgKijngAAVe1cHWPDbT6RrEtrHJF50d3YiGUSptJGPMR0KnI5A+hp1f3fN5E0/ft5kt14j0Sy0mLVb3WNPt9Om2+VeS3SJDJuGRtcnByOmDzV21u7e+tIrqyniubeZQ8U0Lh0dT0IYcEe4rB8Aztc/DPw7O6xI8ul27ssMSxoCYwThFAVR7AACo/ht/wAkx8O/9g+H/wBBFVKPLKS7f8H/ACFF3imdPRRRUjOW8Qx+GjFDJ4rTSjGrEQtqQjwCeoUv34HT0pNQt/DNvoMUWqw6TFpCFfKS5WNbdc/d2hvl78YqHxT4jstAjtY7ia0iu71mjtmvJBHEmBlmdj0UDHA5JwB1yMSeGx0DR/Dt7p2s6XLbafHJFE1/diGG53rgssihgGGDgAHgke9LoM7S0W2SzhWwES2wQeUIQAm3HG3HGMelTVzngO3uLfwpGLqPyxJcTywpsKbYmlZk+U8gYIIB6AgV0dU9yUaNFFFIZDPaW108LXNvFM0EnmwmRAxjfBG5c9DgkZHYmqOp+HNO1PRdV0wwi1i1ZHW6ktkVHcuuwuTggtgAZIPQVmeNbu5tRoyieW10ybUFTUrmJzGY4fLcrlxgopkEYLAjrjPNcHqOuSRNGo8QX0Phv/hJ47eHUReP89ubN2lTzyctGJNw3Enbg4YbQQlrp/W6X6r7itVr2V/z/wAj1TS9NmsLA215qd1qxJP729SENtxjbiKNFx+GeetNu9I8zSYtP0m9n0SOEKsbafFCNiAYCBZI3ULjHRe3FYPw9uZLm11j7PeXF/o8eoMml3VxO07Sw+WhYrKxJkQSFwGJOcdSK0PFl34htLKBvC1p9pnaTEq/ZY58Ljrh7mADnuGb6d6ctV62Jj27XNDQ9Ig0DQLHSbSSWSCygWCN5iC7BRgE4AGfoBV+uf8ACd34iu7W4bxTafZZVcCIfZY4MrjnhLqfPPqV+h61B41u7m1GjKJ5bXTJtQVNSuYnMZjh8tyuXGCimQRgsCOuM805N316/qC2OjngiureS3uY1lhlQpJG4yrKRggjuCKztH8P22jQRwxyz3SQM32U3bCV7VCAPLRyN23j+Ise2cAAeY6jrkkTRqPEF9D4b/4SeO3h1EXj/PbmzdpU88nLRiTcNxJ24OGG0Edp8PbmS5tdY+z3lxf6PHqDJpd1cTtO0sPloWKysSZEEhcBiTnHUilHW/8AXZ/r+YS0sv66/wCR0F3oOj6g0rX+lWNy02PNM1sjl8KyDORz8rMvPZiOhqC98Nabd+FLrw7BAthp1xbvbeXZIsQjRgQdgxtB5Pas34iXutWHgfVp9Cht2ZLC4aSeS9e3kgAjJDx7Y23MOoGV6Dn02dGm1SbT1fW7S0tbjPCWl21wpXAwSzRoc9eMfjRa6Y9VZlZDbeGNDkfxF4gae1VvnvNWe3hCg4AUlEjTH1GeetSW8Ok6t4XFro8tq+lT2xghax8tohGV24TAKYA4xgjjpS+IdRg0rRZbm51TT9KwQI7vUgDBG5PG4b0z/wB9CsD4YOknhi7ljMc3m6ncyNewgiK9LPkzRjHCHOABkfL95vvEtzXT/r+v662PhSa/r+rHUaZp1tpGk2mm2KeXbWcKQQqTnCKAAM/QVJPaW108LXNvFM0EnmwmRAxjfBG5c9DgkZHYmpqKbbbuxJWVkVn06ylW6WSzt3W8G25DRKRONu3D8fN8vHPbioNV0DR9dgjg1zSbHUoom3Rx3lskyocYyAwODitCikBjf8IxZ2ekHTvDTf8ACNRNJ5hOk2tvHk4wfleNk545254HNWtD0iDQNAsdJtJJZILKBYI3mILsFGATgAZ+gFX6KACiiigClqmjaXrlqLXWtNtNRtwwYRXcCyoD64YEZpkvh/Rp9FXSJ9JsZNMUALZPbIYQAcgBCNvB9q0KKAKKaJpUaqqaZZqquXUC3UAMU2EjjqV+XPpx0py6Tp0dvNBHYWyRTxCGVFhUCRAu0KQByAvAHYcVcooeu4bbGVo/h+20aCOGOWe6SBm+ym7YSvaoQB5aORu28fxFj2zgACa70HR9QaVr/SrG5abHmma2Ry+FZBnI5+VmXnsxHQ1fooeu4bbGTe+GtNu/Cl14dggWw064t3tvLskWIRowIOwY2g8ntU+l6bNYWBtrzU7rViSf3t6kIbbjG3EUaLj8M89av0UAU5dKtH0STSYYktrNrc2yxQxqFjQrtwqkFcAdBjHtTtM0620jSbTTbFPLtrOFIIVJzhFAAGfoKtUUARzwRXVvJb3MaywyoUkjcZVlIwQR3BFUdH0WLRtOawiurq6tQx8qO7kEnkpgARhiNzKO24secZxgDSooArDTrJdMGmrZ24sRF5AtREvleXjGzZjG3HGMYxUGq6Bo+uwRwa5pNjqUUTbo47y2SZUOMZAYHBxWhRQ9dwMKXwfpK6KdI0qEaLYSSb54NJRLYTgjBUlVyAeMlSrcDnGa1lsbRdOFgtrCLMReSLfyx5fl4xs29MY4x6VPRQBVXS9PS3tIEsbZYbEqbWMQqFtyqlQUGMLhSQMY4JFQahpH2qGb+z72fSLid1ea6sooTLJgYAbzI3B4wOmeBg1o0UPXcChoekQaBoFjpNpJLJBZQLBG8xBdgowCcADP0AqzPaW108LXNvFM0EnmwmRAxjfBG5c9DgkZHYmpqKbbbuwMvU/Dmnanouq6YYRaxasjrdSWyKjuXXYXJwQWwAMkHoKfYaQ1vpUthqWoXOspKGV3vo4QShGChEcaKR16jPJ5rRopdLAZuj6LFo2nNYRXV1dWoY+VHdyCTyUwAIwxG5lHbcWPOM4wBZGnWS6YNNWztxYiLyBaiJfK8vGNmzGNuOMYxirNFO4bGfqugaPrsEcGuaTY6lFE26OO8tkmVDjGQGBwcVSl8H6SuinSNKhGi2Ekm+eDSUS2E4IwVJVcgHjJUq3A5xmt2ikBAtjaLpwsFtYRZiLyRb+WPL8vGNm3pjHGPSmLpenpb2kCWNssNiVNrGIVC25VSoKDGFwpIGMcEirVFHmGysZ2oaR9qhm/s+9n0i4ndXmurKKEyyYGAG8yNweMDpngYNUU8I20XhGy8ORX9/FY2sSQs0UqpLcRquNjuqggHuU2njggZFb9FA7sjt7eG0tYra1iSGCFAkccahVRQMAADoAKp6zpK63YfYpru7toHb98LWTy2mTBzGWxuVTnkqVbjr1zoUUPXcS02I7e3htLWK2tYkhghQJHHGoVUUDAAA6ACob3T4r97Uzs+22mE4jBG12AO3dxyASGHuoParVFHW4bKxG9vDJPHPJDG0sQIjkZQWTPXB7ZwM1Uu9B0fUGla/0qxuWmx5pmtkcvhWQZyOflZl57MR0NX6KAMm98Nabd+FLrw7BAthp1xbvbeXZIsQjRgQdgxtB5Pap9L02awsDbXmp3WrEk/vb1IQ23GNuIo0XH4Z561fooApy6VaPokmkwxJbWbW5tlihjULGhXbhVIK4A6DGPal07TLXStHtdLs49tpawLbxxtzhFXaAfXgVboo7+YGdd6R5mkxafpN7PokcIVY20+KEbEAwECyRuoXGOi9uKdoekQaBoFjpNpJLJBZQLBG8xBdgowCcADP0Aq/RQAUUUUAYWo6pbaVCsl2twys20C3tZJ26Z+7GrED36VXl8SaVFp1rfC5aaC8/49/s8LzPLxn5UQFjgA544xzTfEVwIdOCG51O1MjYEum2ZuJBx0IEb4B9cD6iub02C60iHw1qN9ps6Q21lPayw21u8jwFyhRzGu58kJhsZILc9zQM7OzvLfULOK7s5VmgmXcjr0IqesPwhZ3FnoJ+1xNA9xdT3KwsMGJZJWdVI7HBGR2JNblMRo0UUUgCs7VdEttYuNNmuXlVtNvBeQiMgBnCOmGyDkYc9Mc45rJ8a2lzdDRmEEt1pkOoK+pW0SGQyQ+W4XKDJdRIYyVAPTOOK891iyjtpbVrjS7yLw7P4rjezsPs0isYvsTiXbABvCM4c7MfN83yndylv81+a/wA/wHbR+j/J6fh+J7DNqFnb3tvZ3F3BFdXW77PA8gV5toy21Ty2AcnHSltb60vhKbK6huRDK0MphkD+XIv3kbHRh3B5FePW3hDVLzxAt34d09tItreW8u9CS7tXiitSDZjayFcwrKVnGzAO1mIHatabQbnw/a2Di0u7mDTfEsd1cSQWrySSobTY8wjQFnzI5J2g/wAXoapbK/X/ADS/C+on5ef4X/PSx6Lq2oTaZYm4ttMu9TYHBgtGiVwO7fvXRcD659qr6X4j0/U/DFjrxk+x2V7FHLGbtljK+ZgKrckZJIGATycCsfwct3JZeI57rT7qyN1qk0sMVzHtdkMcYVse+P6dQa5a+8KnUvgFodpqGhfa77T7ezkNtPab5owkkZlVUI3biisCoGT070ltd/3fx3+4e7t5tfcz0PWdHttUfT7m5M+7S7r7bCsJGXcI6YIIORhzwMc45qxpd/8A2ppNrffZbqz+0RLJ9nu4/LmiyM7XXnDDuKwYtF8Maz4LksrLw5brpi72isbnRzbqsmD8whkjUg5PXbzmuL1K1W0+Gfw0tdbsLplhubSO6sxA7S8WcoZDGPmPcFMEkZGD0oXVea/HT9ELfXyf4anqGrahNplibi20y71NgcGC0aJXA7t+9dFwPrn2qLRtbg13w1Z63ZxTi3vLdbiON1HmbSMgEAkZ+hNc94G097PS9dNrYS6dpVzevJpllJCYTHD5SAkREAxhpA7BCBjPQZpnhzw7b33wc0bS/EOjx3Lw6bHutL61DlJRHgfI44YfTNTJtQb8k/vTuVFJyS9Tq9Lv/wC1NJtb77LdWf2iJZPs93H5c0WRna684YdxVuvMpdKv/wDhTPhG0udNvZ4LWKy/tfToo2E0kCx4eMx8M2G2lk6kKRg5xVvVzpUPgQweF/CKnTp71Y57WfQJljhB5aZrPYskoGFGFAyTnOATWk0lJpdHb8v8yI3cU/K/9eZ6FTZH8uJ32s21SdqjJPsPevHLDS9STwTc6bc6Vdyafa+IBcXVhZ6bLapPYON22KEk5TcQTEGY4BUjJxXcW2ieFdY8H3Vlp/hmCPTgzOtldaMbZfNC/fEMsanP+1trOV1Ftf1on+tvVFxV5JP+tWv68mdFpd//AGppNrffZbqz+0RLJ9nu4/LmiyM7XXnDDuKt15va6XqCfDXwHb3djcvaWaWv9r2PksZCgtyoVosbmCyFCUwTx04rLl8OT6hf28cOk3sPh+TxTHNbWvlSQ+VALN1kbYMNFG0ueDtB3HjDc6SVpuK72/FL9fwIjrG77X/P/L8T1yiuV8IaLHoWueI7Ww08afppuoXtYYovLh5gTeY1AC43ZzjvnvVvxZaeIbuygXwtd/Zp1kzK32qODK46Ze2nB57BV+vaovoM36K5/wAJ2niK0tbhfFN39qlZwYj9qjnwuOeUtYMc+ob6jpUHjW0uboaMwglutMh1BX1K2iQyGSHy3C5QZLqJDGSoB6ZxxTegdDp6rzahZ297b2dxdwRXV1u+zwPIFebaMttU8tgHJx0rx7WLKO2ltWuNLvIvDs/iuN7Ow+zSKxi+xOJdsAG8Izhzsx83zfKd3K23hDVLzxAt34d09tItreW8u9CS7tXiitSDZjayFcwrKVnGzAO1mIHaiOr/AK7J/r+A2rO39df8vxPYbW+tL4SmyuobkQytDKYZA/lyL95Gx0YdweRUOrahNplibi20y71NgcGC0aJXA7t+9dFwPrn2rzqbQbnw/a2Di0u7mDTfEsd1cSQWrySSobTY8wjQFnzI5J2g/wAXoa6Xwct3JZeI57rT7qyN1qk0sMVzHtdkMcYVse+P6dQal/C2uiv+Ef8AP8A6rz/4P+X4mxpfiPT9T8MWOvGT7HZXsUcsZu2WMr5mAqtyRkkgYBPJwK05H8uJ32s21SdqjJPsPevK77wqdS+AWh2moaF9rvtPt7OQ209pvmjCSRmVVQjduKKwKgZPTvXWxaL4Y1nwXJZWXhy3XTF3tFY3Ojm3VZMH5hDJGpByeu3nNVU93mt0CKva/U3tLv8A+1NJtb77LdWf2iJZPs93H5c0WRna684YdxTdW1CbTLE3Ftpl3qbA4MFo0SuB3b966LgfXPtXl+pWq2nwz+GlrrdhdMsNzaR3VmIHaXizlDIYx8x7gpgkjIweldV4G097PS9dNrYS6dpVzevJpllJCYTHD5SAkREAxhpA7BCBjPQZoqaOdul/wt/n+Ao/Zv1t+v8AkdDo2twa74as9bs4pxb3lutxHG6jzNpGQCASM/Qmp9Lv/wC1NJtb77LdWf2iJZPs93H5c0WRna684YdxXKeHPDtvffBzRtL8Q6PHcvDpse60vrUOUlEeB8jjhh9M1kS6Vf8A/CmfCNpc6bezwWsVl/a+nRRsJpIFjw8Zj4ZsNtLJ1IUjBziqkkpSXml99wWy+f4WPTaK891c6VD4EMHhfwip06e9WOe1n0CZY4QeWmaz2LJKBhRhQMk5zgE1zlhpepJ4JudNudKu5NPtfEAuLqws9NltUnsHG7bFCScpuIJiDMcAqRk4qVq/68v87/IO39d/8vxR7HI/lxO+1m2qTtUZJ9h71W0u/wD7U0m1vvst1Z/aIlk+z3cflzRZGdrrzhh3Fc7baJ4V1jwfdWWn+GYI9ODM62V1oxtl80L98Qyxqc/7W2sS10vUE+GvgO3u7G5e0s0tf7XsfJYyFBblQrRY3MFkKEpgnjpxQuvy/G4Pb7/wPSKK8jl8OT6hf28cOk3sPh+TxTHNbWvlSQ+VALN1kbYMNFG0ueDtB3HjDc2dW8M6rY6H4503wla22m6fJExhshpryJOGtFDLbqjoFYtkZAb5j0z1Ol/62T/X8ClG8lH+t2v0PR9U1W20ez+03guGj3BAttbSXDknsEjVmP4Ck0nV7HXNPW90yfzoGZkJKMjIynDKysAysCCCpAIrA1XWNd8MeE1nvIRrWoyzJDF/ZulzhIQw+/JGryuVXBJIPPAABOaveDbezt9AzYm9kM08k1xNfWcttLNMzZdzHIqlQSeABjGAOlPuRe6T7m9RRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAYWo301jCr2+m3WoMxwY7UxgqMdT5jqMfjmsyTxjpsei2mqCK8kt7vZs2W7fLucIAx+6p3HGCfpmrPiKNp9PEA07UL9JG+ZdPuxbuvHdjInHsCfpXOajYa4ngGw0caRNeXi+Qzm3kgVIljmVwh3MmSFXHyrgkdqF+qGdzRUNpPJc2qSzWs1o7dYZihdee+xmX8iamoEWNQnuLayea1hjmeMbikkpjGB15Ctz7Yp9ncC8sYLlUZBNGsgVuq5GcGodWu4LLS55bmeGBShVWmICliDgc9fp3qLQLcW2gWa4lUtCjMsrlipKjI56D2GAOwprZie6NGql9pVnqUtnJew+a9jcC5tzuI2SBWXdweeHYYORzVuikMKKKKACiiigAqpfaVZ6lLZyXsPmvY3Aubc7iNkgVl3cHnh2GDkc1booAKKKKACiiigAooooAKKKKACiiigAooooAqX2lWepS2cl7D5r2NwLm3O4jZIFZd3B54dhg5HNW6KKACiiigAooooAqX2lWepS2cl7D5r2NwLm3O4jZIFZd3B54dhg5HNW6KKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMHU59Qt7cPplrbXLgkuLm6MCquOu4I/8AL8aoW2tajqnh+w1LSNLidrqPzGiu7owiMY7MqPuz24AI5qfxBZS6hYrbx6VpuqRs2Xh1GQog9GGI3yfwH1rGuNC8QR+G9L0qCW1vY4wRqAnupITMvaNX2O23nBzyQoHc0dBm/omqx63odpqUMbRJcxhwj4JX2yOv1q/UFkJVsYVuIIbeRVAMUDl0THZSVXI/AVPTe4lsSavrNhoOnPfatcLb26sF3FSxZicKqqASzE8BQCT2qtH4m0+TR5NTEeoLBG+wo+mXKzE8cCExiQ9ey1X8W6JeazZWUmlSwJfabex3tutzu8qVlDAo5XkAhjyAcHBwcVS1uy8W614cSKMWOm3gulaa3tdSmC3EA+8n2kRK8RJ53KmeMZ5yJ/z/AA01/Mf9f8AXUviNoWm+HV1krqNzbNci1K2+nTNJHJvCFXQqDGQWHDYJ6AEkA6N14p0+18K3XiCRLxLS2jZ2Se0lglbb/CI5FVsk8DjnIrkrXwDrEXg3XNGaS1Et3qMeo2jvezT5ZXjk8uR5FL43R7d+WJBzgdK6LWtM1jxJ4Gv9PvYrPT9SnQ+SLe5a4iV1IZCWaNDjIGRt6UPZ/wBdF+twW/zHpP4sOhxTyW2nDUZruEtapuZLe3Z1EgLlhvdU3ncAozgbTjma31m507TZbjxUIbSRr6WC2SBC7TR+YwhwqlizsgDEDnrwMGrWiarJq2n+bc2F1p9zG3lz29zGVKOACdrfddeeGUkH1yCBU8SaJcapPpN7YPELrSrz7VHFMxWOYGN42UkAleJCQcHBA4qno/68iVt/XmRy+OfDsFkl1NflEe7+xBGt5RIJ9pfyjHt3qxUZAIGcjGcjMieM9BfRJdW+2slrFN9ncSQSJKs2QBF5RUSbySMJt3HIwOa4fxDo2r6brGmao4sn1TVfE8U62wlfyIwllJGqGTbuJITJbZwT9045v6j8PdU1bR7y4ubmCHWLnWI9W8q3upo4VKRiJYfOTbIPkH+sAB3HO3AxUrVXf9fDf839xTVml/XX/Jff93SSeO/DkOmw31xqDQQzXf2JRNbyxyCfaWEbRsodWIHAYDORjqM2YPFOl3OhNq8Bu3tVkaIqLCfzg6ttK+Ts8zIIIxtrmbLwPex/2XKLW2sZbfW11K6B1e51BpgLd4s+bMgYtygxgDC9a6Dxfpusapo8cGgXSwSi4R542uXtvtEQzujE0as8RPB3KCeMcZzT6f15f8EX9fnp+Q4eMtC/sB9Ze9aOyjlMDGWCRJBLu2+X5TKH35427cn0om8WWC6DJqiRakIlYxhX0i78xWxnJi8vzAv+1tx71yVj4B1yx0iaKGWyF1b60usWPn3k9wsjFNrRSu67+MkB8sejYGMV29r/AGteaTcJrFrZ2dzIGRI7W6edMEYBLtGhzntt/Oplfldt/wDgL9boqNuZX2/4L/SzKWleJYT4M0nWNZu7ZpL+CFg1lHKUnkdQQIkYeYc9QCN2Oo4NJN468OW1il3c6kIY3vPsOJYZFdbjaWEbIV3KxAyAQM5GOozl23g6/tfCXhC1Sa2fUvDYhYqXYQzssDQuu7bkDDkhtp5A4quPBOqz65FrN3NZpcSa7HqU8ETuyRxR2rQKisVBdjkMSQo5I7c6StztLa/4XX6X+4iPw69vx1/4Bux+N9Ak0u5vzeSRRWsywTRz2ssUyytjankuokLNuGAFy2eM04eM9DOk/wBofapfK8/7N5JtJvtHnYz5fkbfM34527c45xjmue8S+Ab/AFqfU7m3uo45ZNStr+0UXM0O4xQiNkd48Omfmwyk44OD0p0HhG9t/D88C+HtLnubi8FzLFea9d3OWCBBKtzJEZEkAUAYXgDgioWq/ry/4JTtp/Xf/gHZadqEGqWKXVqs6xvkAXFvJA4wccpIqsPxFWqxPCWl6npGgJa61etd3PmyOMzPN5KMxKx+a4DybRxvYZNR+LPCFj4wsoLbUZNiQSeYp+x21xzjHS4ikA+oAPvTlpsJeZv1Q1mTVI7OI6HFDLcG5hVxP90QmRRK33hyE3Ec9QOD0rO8J+DrHwfa3EGnSb1uHDt/odrb4IGOlvFGD9SCa6Cn1Az9Gl1WW1nOtwQwzLdTLEsPRoRIREx+ZuSmCenJ6DpUuo6pZ6TbrNfzeWryCKNVUu8jnoqqoLMevABPB9KNVmubbR7yexRXuo4HeFWRnDOFJUFV+YjOOBz6Vz9xpesa7ovhnVLxLe31vTpI72a1YssLSNCySR5+YrjzGwfmwQPrS/4H9fgD7+pbl8c+HYLJLqa/KI939iCNbyiQT7S/lGPbvVioyAQM5GM5GdDR9c0/XrN7nS5mkSOQxSLJE8UkTjqro4DKeRwQOorzvxDo2r6brGmao4sn1TVfE8U62wlfyIwllJGqGTbuJITJbZwT90456rS9L1XQ9J8Q6rcfZn1jUZZL0QQiSWGJlhVI4wQodxiMZIUEknA6Uk9G30/O0X+r+4bXvJLr/m/8l/W23rMmqR2cR0OKGW4NzCrif7ohMiiVvvDkJuI56gcHpWemp6zZaa15rVvbxLFfypKIx0tN7LHL944O3Y7Z7buAa0NDn1C58P6fPrUEdvqMltG91DGCFjlKgsoyTwDkdTV2WNJoXilQPG6lWVhkMD1BrWNoT95X/r+rE35kUdY13TdAggm1e6W2juJhbxMyk7pCCQvAPJCnHqeOpFZ7eIZdX09n8JhZrqC8hhuYb23kheKMupkJR9jAiMlhnrxwapyaNqF8mkWrHB0PVVlMs+79/AsThCpwdzYkUHOOVb2rX03S5rPX9ZvpWjMV9JE0QUncAkYU549R2zXVOlQhT3vLffTdaWt1Wu4ru/8AXmVPP8Vtos8yW2njUIbyby7aXcEuLZXYRjerNsdl2ncQwByCo7aOhazbeINCtNVsQ4huow6rIMMh6FWHYgggj1FJrWqPpOn+dDYXeoTu3lw21rGWZ3IOAW+6i8csxCj15ANbwjo9xoPhSx0+9lSW6jVnneP7pkdi77fbcxA9q4VsU9zZooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDmPEN/JpunC5TVNO0xFbDz6hGXQ8cKAHTkn3/AArPk1y+/wCEPsdWu7zTdCllRXma/jZ4xkcADehBPBwTntjNbOpQ6jPCq6Vd2tq+TvNzatOGGOwDpg/ifpVC10O+0nw9Z6Zo2oW8Zt1KvJdWZlD5yThVdNvJ4HIA4xR0Y+qLmg31zqWgWV7f24trieFXeIZwpP15GeuDyM4rQrP0LSU0PQ7XTY5DKsC43lQu4kkk4HAGScAdBxWhTdr6ErYbr2vW3h7T0ubqOedpZVggt7ZN8k8rfdRRkDJ55JAABJIApketXjaPJeP4d1SO4V9osGa3Mz9OQRKY8c93HSmeJtAbX7G3W3vGsb2yuUu7S5EYkEcqgjlTjcpDMCMg4PBHWs3W/C2seIvDiWGraxYvcJdLOfL01xazov8AyylgMxLoc5I3jJA9MGdfx/DT/glaf1/XoVdV+I/2Lwu+r2fh3Ubp4b8WFzaNLBG9tIZFTDnzCD98Y2lgcjJUZI19S8Sy6Z4NvNcu9HvLWW3jZlsbh4jI7Zwi5jd1+Ykc54zzWFZ/DX7H4T1bQob+1hgvbxL63+zaeIktZlZHxsD4Kb41IUbSBkZPWtzUdB1DXPB17o+tajbvdXMbKt1ZWrQLGeqMEaRzkEA/e5xQ9n/XRfrcFv8AP/hhqad4lGhxJJrcbapJdwzTyLAiRRxB1MsMa7WOCgYAsS2TncOMC6nd+HrFV8QTtqF5e6jLFYxWyrvkRmZooxwigrGOSTj5Tye+hol1qdzp/wDxPNPFleRN5b+XKskU2AP3kZHO0+jBWGDx0Jh17Qv7YbT7iG4+zXum3P2m2lKb1DbGRgy5GVKuw4IPTmqe/wDXl/X3krb+t9TLn+IWn26Kkmn6l9tOojTXsViQzRzNEZVBw+3aygEMGI5GSMHD18eaf/Zc1zNZX8N5DerYNpjRobg3DAFYxtYocqwbdu245JGDXPa/4R1W3vtLvLK7Nzqt74ijvLm7SyJhgC2ska5iDZEYAUHL5Jb7wyMX9Q+GcGr6DdW+rXsN3qV1qS6nJcy2SvAZlUIq+QxOY9g27SxPJO7PNSttf6+G/wCb/Ap2uv67/wCSL0vxCsLe0he403VEupNRGmPYiFHminMZkAbY5UgqAdysR8wyQMkakGu3E+hNqA0DVUnWRo/7OkWFZyQ23IJk8vBxkHfgjvWJY+ABawaWgbR7I2GqDUCmkaR9jilxE8e0p5jc/Pndk9MYrV8X+G5PFGjx2UV5Hb7LhJmSeAzwXAXOY5Ywy70Oc7dw5A69C+n9eX/BF/X5/wDAKw8eaeNBfUZLK/jnS9On/wBneWjXBuc48oBWKE987tuOSQKtXGvX6eH5r4eG9WjnViptN9qZlGM+Z/r/ACyo9N+fauesfhm2naPNZWWp21o6amuqWD2unLGlpPt2svl7yGjPI2jaQGI3E811tnaao2lzwa3fWt1cShlEtpaNAiqRgfI0jknrzu/Kplfldt/+Av1v8io25lfb/gv9LfMxtH8Uxw+BvDt/fXFzqd1qsMCwEW6RTXcjx7/uBtiHaGY/NtGDzTbj4h6baxos9hqQuzqK6a9ksCvNHM0ZlXIViCpUAhlJHPOMHD4PBX2bwx4b06G/xe+HVi+zXZhyrskRibdHu+6ys3AYEZHPFQJ4Dd9Sh1O71QS339sJqlw6W+xJNkDQLGi7iVAUg5JYkg+vGkrObttf8Lr9LkR0jrvb8df+ATjx7ZJZXL3emala31vdx2f9myRxtPJNIoZFUo7RnIOc78AA5IwaSXx/p8Glm4uLC+iu1vhpx05xEJhcModU3eZ5XKkEHftOQM5OKq+Ivhza+I/7Ta6uIme7vYL2BZ7RZo4pIoxGA6McSKRnI+Xg8EHmpbLwde6Z4dm07TH8NWTTylpo7bw/5drMhXaVaET5J99/tioV7a/1t/wfw+daaW/rf/gfidLp13LfWKT3FhcafI2c29yYy6c9zGzL+TGq2u69b6BZwyzwz3MtzOtvbW1uoMk8rZIVdxCjgE5YgAAkkVX8JeHF8LaAmmrcCfEskp2R+XFGXYtsjjydkYzgLk4Hel8S6BLrkdjLZXi2V9p10Lq1meHzUDbWQh03LuUq7Dhge4NOW+nl/wAEXf5/8AwNM8cyRprtxrFtfBotXjsbLTvJj8/e0ELCIbTtJ3M53FiuOd2BXS6HrsWuQXJS2uLO4tJzb3NrdBfMhfaGwSjMpyrKcqxGDXL33wyGr6RqNvrOpw313d6pHqiSzaejQxyrEkexoWJDphSMEg4b72RuPQeFPDo8N6dLbCDR4TJL5hGkaZ9hiPAGSm98njrmmrW17L8l+t/w+Y/L+t/+B+IviXxTb+GY7Q3FleXsl5I8cUVoisxKxtIc7mUAbUPJNZth8RdK1CW0jjtL+M3l1DbQ+bEq7vNhaZJCN2QpVT1+YH+HvWl4h8O/29Pp8n2ryPsbzNjy92/zIHi9RjG/P4Y96wP+FcTQRW8llrEaXlpJZy20stmXjV7eAwncgkBYMrNwGGOOTikvPuvu6h/k/v6G5PeHxDYalDpWo32lTafdNBJPBHCWZlQMQBIjrtO4dgeO1c7D471LSvhNoPiG70y51y6vILYXDQPDDh5WRdx3FQMl+AoIz12jkdH4d8OTaJZalFc6i1/NqF3JdPM0QTaXVQVwDjA28e2B2yaJ8EA/DS08J/b/AJ7SCBI7zyeN8LK6MU3dNyDK7unGe9C0X/gP/wBsNb693919DQutcvovDr348Paolx8wNmHtTNGMH5z++8sjjOA5PtWTY+Mo7DwN4Y1C/N/q8+spDFFJFaxpLNI8RkBaMNtTIU5wSAT1xkjobS11FtJkt9ZvLW5uZAyma1tWgQAjA+RpHOR/vc+1cbrXhjUtN8N+BdG0edpp9Jv4IzefZDIiLHbSp5joG4UnAPzD72N2cGjy7uP/AARdPlL8tDdi1VvFWj3q6fdan4fvbGcxXMfl25nhcKG2ncssZBDKcrnIIwetVdB8RanL8K9I1qe1u9Wv7mxjkmNoIFfcUyZMO8aYB7A/QVp6D4dfSLbUWu7wXl/qlw1zd3CxeWhcoqAIm4lVCooALE9STzUmg6B/Yngyy0D7T5/2WzW18/y9u/C7d23Jx9M1Mr8jtvZffZ3KjbmV/P7jL07xZFZfDrRNZ1Ga71Sa/t7cReXaqk95LIoKgRq2xWPUjdtGDzgZrWj1q8bR5Lx/DuqR3CvtFgzW5mfpyCJTHjnu46Vkt4IZfBGh6Jb6m0N7oSwNaX4gBHmxJs3GMnlWBYFd2cNwe9LrfhbWPEXhxLDVtYsXuEulnPl6a4tZ0X/llLAZiXQ5yRvGSB6YOk7OTt3/AA0/4JEfhV+34/1YkHjzTxoL6jJZX8c6Xp0/+zvLRrg3OceUArFCe+d23HJIFWrjXr9PD818PDerRzqxU2m+1MyjGfM/1/llR6b8+1c9Y/DNtO0eaystTtrR01NdUsHtdOWNLSfbtZfL3kNGeRtG0gMRuJ5rrbO01RtLng1u+tbq4lDKJbS0aBFUjA+RpHJPXnd+VZyvyu2//AX63+Rcbcyvt/wX+lvmY2j+KY4fA3h2/vri51O61WGBYCLdIpruR49/3A2xDtDMfm2jB5ptx8Q9NtY0Wew1IXZ1FdNeyWBXmjmaMyrkKxBUqAQykjnnGDh8Hgr7N4Y8N6dDf4vfDqxfZrsw5V2SIxNuj3fdZWbgMCMjnioE8Bu+pQ6nd6oJb7+2E1S4dLfYkmyBoFjRdxKgKQcksSQfXjSVnN22v+F1+lyI6R13t+Ov/ANnQfEMeuNexNYXmnXdjKIri1vAm9CVDKcxsykEMDwxqxq2vaRoEMc2u6rY6bFI21HvLlIVdsZwCxGTUenaN9g1rV9Q8/zP7Sljk8vZjy9kapjOec7c9qk1bRrXWoY4ryW+jWNtwNnfz2rE4xy0TqSPY8VGth6CaTr+j6/FJLoWrWOpxxNtkezuUmCH0JUnBpdZg1K5s4k0a7W0nFzCzyMobMQkUyLyDyUDAe56jrSaTotrosUkdnLfSLI25jeahPdEH2MrsQPYYrQquoGfo0Gp29rOutXSXUzXUzxMgACwmQmJThRyE2g9ec8nrSaxrVto0dt56SzTXc4t7a3hALzSEE4GSAMKrEkkAAGptVF2dHvBprMl4YH8hlVWIk2naQGIU844JA9axT4e1DU9B8PyatfKuv6X5dw10IgyNP5RSTKDblWDuMAr1GOmKX/AB9/Uhn+IWn26Kkmn6l9tOojTXsViQzRzNEZVBw+3aygEMGI5GSMHFFvifbDxBpmmPpVzbG4uJba+N3KiPp7r5WzcFLK4czxgFWx8w684z9f8I6rb32l3lldm51W98RR3lzdpZEwwBbWSNcxBsiMAKDl8kt94ZGNKL4aWtzeXF14hul1OS/S4F+ghMKStL5AXZhy0YRbdQBknJzuzRHe7/rRfq3+A3a6/rv8A8As6T4/t7+C3lubCW3W81Y6daGNxJ5gMRljlbptDIM4GSMj8NCe8PiGw1KHStRvtKm0+6aCSeCOEszKgYgCRHXadw7A8dqpaj4KaeJW0y+hs7i31RNRtC9qZIoisIh2MgdSy7d3RlxkenN7w74cm0Sy1KK51Fr+bULuS6eZogm0uqgrgHGBt49sDtky9Yv0/G0f15g2a/H8f+Ac5D471LSvhNoPiG70y51y6vILYXDQPDDh5WRdx3FQMl+AoIz12jkdLda5fReHXvx4e1RLj5gbMPamaMYPzn995ZHGcByfas8+CAfhpaeE/t/z2kECR3nk8b4WV0Ypu6bkGV3dOM9627S11FtJkt9ZvLW5uZAyma1tWgQAjA+RpHOR/vc+1VU15uX5BGytc56x8ZR2HgbwxqF+b/V59ZSGKKSK1jSWaR4jIC0YbamQpzgkAnrjJFyLVW8VaPerp91qfh+9sZzFcx+XbmeFwobadyyxkEMpyucgjB61ha14Y1LTfDfgXRtHnaafSb+CM3n2QyIix20qeY6BuFJwD8w+9jdnBrptB8OvpFtqLXd4Ly/1S4a5u7hYvLQuUVAETcSqhUUAFiepJ5oqa8/L52/C35sUdOW/ZX/H/AIBmaD4i1OX4V6RrU9rd6tf3NjHJMbQQK+4pkyYd40wD2B+gp+neLIrL4daJrOozXeqTX9vbiLy7VUnvJZFBUCNW2Kx6kbtowecDNamg6B/Yngyy0D7T5/2WzW18/wAvbvwu3dtycfTNZbeCGXwRoeiW+ptDe6EsDWl+IAR5sSbNxjJ5VgWBXdnDcHvVStzSttdfdrcFsvn+ljWj1q8bR5Lx/DuqR3CvtFgzW5mfpyCJTHjnu46VnDx5p40F9Rksr+OdL06f/Z3lo1wbnOPKAVihPfO7bjkkCo9b8Lax4i8OJYatrFi9wl0s58vTXFrOi/8ALKWAzEuhzkjeMkD0wcyx+Gbado81lZanbWjpqa6pYPa6csaWk+3ay+XvIaM8jaNpAYjcTzUrfX+tv0v8w7f13/Wx0Nxr1+nh+a+HhvVo51YqbTfamZRjPmf6/wAsqPTfn2rH0/xT5XhnwlfXVzd6lPqsCCPbAkMt3I8QYExhtiHGWI3bRg810lnaao2lzwa3fWt1cShlEtpaNAiqRgfI0jknrzu/KubPg42em+D9MgvwLvQUAt7tocq7JD5Z3R7ujKW4DZGevFNdb+X63/r8weyt5/pYs3HxD021jRZ7DUhdnUV017JYFeaOZozKuQrEFSoBDKSOecYONXQfEMeuNexNYXmnXdjKIri1vAm9CVDKcxsykEMDwxrGTwG76lDqd3qglvv7YTVLh0t9iSbIGgWNF3EqApBySxJB9eNKTRbuxbxHf6bcsbzU0DwKsS5hkSEIuNx2tyoPOB2PrU3srv8ArRfrcqyckl/Wr/Sxf1mDUrmziTRrtbScXMLPIyhsxCRTIvIPJQMB7nqOtZpbW9J0iW81K8W6a3vpZ3WNF5sy7bV4UfMkZVuOSUxk5rS0OPUYfD+nx65Ms+pLbRi7lQAB5do3kAADBOegFXyMjB5FaxahPXUi91/X9dTJ1zxHa6DBZS3ENzci+uVtYVtI/MYuysw4z0+U89s88ZIojVr/AMQ2s9tpC3Gi6jY3sC3UV6kbMItyO4BUyId0ZIBB4J7U3/hG57hdOtZZfJg0bUhc2rbQ3nQiNwsfXK7fM25OeEHrxq2Ok/YtY1S/87f/AGg8bbNmPL2IE655zjPauqaw8adlrLe/zVl2+Hf7vJrW/wDXn/wCh/Z3iVtFnT+2o49SW8mmtpPIR4mh3t5UUi7VONpUEqQ2R9497nhrWh4i8N2eqeQ1s1wh8yBjkxOpKuue+GBGe+Kk1q61K10/Oi6eL68kbZGrzLHHGSD88jHnaO+0M3IwOpEfhrRR4d8N2el+e1y1uh8ydhgyuxLO2O2WJOO2a4Vt/X9f16lPc1KKKKACiiigDmPEUjw6b5yX+oWQRuW0+0FxI3BwNpjfj3x+IrAuPEeqH4fwS2txbvrM9g9y08QV44VVSTIQMqT0XHTcfQGup1Gxnvo0W31O708qcl7UREsPQ+YjD8gDWXN4H8P3OjJp11p0FwI4GhS5niSSZA2SWDsCQ2SWz6mk78rsUmrq5s2ErzadbSyHc7xKzHHUkDNT1XsbK302whs7OJYoIECIiKFAA9hxVirlZt2IjdJXKXinxHP4eXSltNNOozalfrZJGJhFtJjd9xJGMDZz3wSRkjBoa141n8MeFodR8S6faWF7PeCzigbUV+zlix2u07Ku1NqliSuQONpPFbmq6JbaxcabNcvKrabeC8hEZADOEdMNkHIw56Y5xzTde0G28Q6eltdSTwNFKs8FxbPskglX7rqcEZHPBBBBIIINRrb5/hp/wStL/L8df+AcTefE3Ubrwdc6r4bs9FvLiy1KGxuiNTaa3y7xANFIkf7wESgZIXac8NjB6e68Q6hpSaLHrGm20d1qmoCyZLW8aVIgY5HDhmjQt/q8Y2jr14qS58KjUPDlzpGr6xqOoidlcXUwhSWJlYMhXy41T5WUEZU8jnNNvfCZ1HSba1vtc1Ka6s7oXVvqJW3WeJwCBgCIRkYZhyh4Jp9fu/S/6i6ff/wDO1Dx5PayCK00Y3cz64dHSMXITJ8kyeYSRgDjBHXGSMngy6l4r1jR9O0pr/w6h1HUdSNgLS3vw6L8sjLIJGRcqRGDggEA9CRgy2ngLTbT7Ptur6VoNVOrB5Zg7POYzGdxK/dIYnHr0OOK1tV0S21i402a5eVW028F5CIyAGcI6YbIORhz0xzjmhbK/lf8L/qHV/P9bfoc5d+NNTtvDfiKW50qC21bRysSwxXRnhkeRVMZDlEOMuMgqMYPWrl1Nc+B/CzX07Xuu+XIJtSuJpyZFTGJJY4wNoC4B8tAoxuIyfvW7/wjp+o22uwXLTFdcVRcYYDyysYRSnHBG0HnPIqIaDf6zokeneLZ4phBcKztZMVS/jXkCVGU7QTyyBiDtHJBK0tfy/r/AD/qxp+ZHazyeOPDIvbWW80iOSUy6bd285DyIOEmZCNpVsk+W4YEbSeeBd8I6xca94UsdQvYkiupFZJ0j+6JEYo+323KSPaqkXh278P6HNp3g+WGFZ7lpIxektFYI/LeUiqNwDchCwHzH5gAFrV0LRrbw/oVppViXMNrGEVpDlnPUsx7kkkk+pqvQNfz/r+v+Hv0UUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOY8RW5n03K22pXbI2Vh068Ns5ODyW8xMgemfwNYUNtqus+B9Ee1vHvZ42D3Wb2ayacBHUp5iLuyGI6gZK84rp9R0q21WNEumuVCHINvdywH8TGykj2PFQyeH9OfSoNNjjmt7W3AEaWtzJAVGMY3IwJ6nqeaOjGN8N3lvqHh2zubNZ0idCAtxK0sikEghnYksQQRnJrUqG0tLews4rSziWGCFAkcaDAUDtU1N7krYl1e1trvSriO8ihkjCM375AyqQDhuh6VFoMsk2g2ZmiljYQov71gxfCj5sgnr15wfUCrF/BcXNm8NpNFC7jaXliMgwevAYc/j+FPsrZbKwgtY2LLBGsYLdSAMf0oWzB7omooopDCiiigAooooAKKKimuoLZoluJ44jNII4g7hfMfBO0Z6nAJwPQ00m9gJaKKKQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHL+I9Nj1LTfLbStO1SRDuSHUW2xjjBbOxuR9PxFcUiy6long7TIJUls7mOYSNqK+ZFJJGvyqyBv3g++VXdjCg5OK7bxAPDv2SI+Khpn2cP+7OpeXsDY7b+M4qPVbrwxFpdvb65PpCWEygwRXjxCKQDGNobggZHT1FHQYzwtcmbwuPstlaW7wSTQJFbfu4HZJGXK4B2qxGehxnvirWiX+pajbyyappX9mFXKJGZ/MZ8Egn7owM9Dznr0wTa0+Wym06B9Je3kstmIWtipj2jjC7eMDGOKs03uStjF+Il7qtv4Z+y6HA0lxfyC0LCNH2q4KnAaWPDYOQckccgDkUfBF3rMPhWfVb3SpbqW/uBPDbWcMMLmMqoRvmuGXbsVOCwIxjB6ntZreC42faIY5fLbem9Q21sEZGehwSPxNOjjSGJI4kWONFCqijAUDoAOwruji1HDew5Fvdvq/L8hON2n2M0atenSzdnw9qQmD7RZGS280j+9nztmP+BZ9qBq16dLN2fD2pCYPtFkZLbzSP72fO2Y/wCBZ9q1KK5vaR/kX4/dv/wfMdipp15Pe2vm3OnXOnPuI8m6aJmx6/u3dcfjnjpXN/EOaeO10OO3F/ILjVo4pYdPujbyzJ5Up2Bw6Y5APLDpXX1FNawXLRNcQRymGQSRF0DeW+CNwz0OCRkepq6NZUqyqW26f1r+IdGjgS3iXSNO023W8n086lrwhhjvHF5NBatC52O5ZtzbkLA7mxkDJAIOzqM2raDHoNvJq0t811rAgmuJYI1Z4WSVghCqFBBCjcAM4966Wa1guWia4gjlMMgkiLoG8t8EbhnocEjI9TTL7T7PVLN7TU7SC8tnxuhuIhIjYORlSCDzXQ8ZGck5wXW+i8+r1083qxcvbt/n/mcHqnjLUY9G1CfTrj7QD4gXTYp4BCTBEVTO0uVQtuyoLnGWGc9Kr6lNrssGiRa0bizkXxJGlpcXot2maM28nLiFjHu3FgOn8JIPIPfyabpkOm3Fu9jarZyKWnh8hdjjaAdy4weAB9AKzdG0zwrqnhu2m0bSdNfSbxBcwolkqRuHQjdsKjBKsRyM4JFdEMdh4K0ae3Wyvqrb/fpazE4t9d7/AI3/ACujCj8RXdtp2rWV5ql7cTW+rLp1jd2sEH2i5do0fywGURbgSyliAvy84Ipmk6t4k1fwzdx21zIl7a6rJbO1wbdbp4VUMQu0ND5vIHTaQDnHUdg+h6O2j/2XLpdidNUf8ejW6eSADn7mNvXnpWVpun+DvEenTPp+k6Ze2LSqjP8AYF8qYouFZSV2yKAcBlyOoB4NSsXhrNcmt09k+y8tH1W19g5X3/rX/gfcWvCepLqmieZ9ovZ5YZ5IJjfRxLKsiMQyt5QCHB4yvHvW1UNra2unWaW1lBDa20K4SKJAiIPQAcAVX0nWtP121e50mf7TbrIYxOqMI5CO6MRh15+8pIzkZ4NebVlGdSUoKyKWiL1FR3NzBZ20lxdzRwQRrueWVwqqPUk8AU9HWSNXjYOjAFWU5BHqKyGLRRUF7fWmm2ct5qN1DaW0K7pJ55AiIPUseAKAJ6Kgsb+01OyjvNNuoLu1lGY57eQSI49Qw4NT0AFFQXt9aabZy3mo3UNpbQruknnkCIg9Sx4Aosb+01OyjvNNuoLu1lGY57eQSI49Qw4NAE9FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHLeJNRi07Twz6vp2lSyErHPqChkPHIA3rz+P4GsbRLo2/gTQ7Cwje1uL5fIh3HJQcl5eQP4QWAwOSowK6XUdUttKhWS7W4ZWbaBb2sk7dM/djViB79Kry+JNKi061vhctNBef8e/2eF5nl4z8qICxwAc8cY5o0sx6l60tYbGzitbWMRwxKFRB2Aqaq9jfW2pWMV5Yy+bBKMo+CM846HkHIxg1Ypu99SVtoY/j25mbRYtIs7O4vp9UlEL29q6JK0A5mKl3RR8mVyWHLDvVf4bXsy6HcaDf2txZ3WiTfZlgumRpBbn5oCxRmU/uyFyGPKHvXY0Ulpfz/r+vVjetv6/r/gGB4su/ENpZQN4WtPtM7SYlX7LHPhcdcPcwAc9wzfTvSeE7vxFd2tw3im0+yyq4EQ+yxwZXHPCXU+efUr9D1roKKFoDOJ+IzXDPolvb395ZxzT3Hm/ZLhoWkC2kzgFlIONyg8HtXJWviOTTfDN7/bN9f3iXQ039/PqklqkUk1uGZ3uF5gjJHO0YyQAMtXsdFLv8vw/z/QOqfr/XyPDriT+3/hXrMepX08kmj61G4WDWLibyrUzQuGaUlXlQIXZXcdBuHTNdZrM9jPpnhW28JeI7qWwutdEEt3aas900i+TMzRmZmckZA4zxxjBAI9Fop9vl+FvzsHR/P8b/AJXOeufDVtB4Vm043+ryRRGSeOVtUuBOp5IXzlcOVGcAFjwBnOK5f+0b2T4J+Gr2LUrwa7PaWbWLrIzvd3RjBCSAkeYrfNv3HAGWyNuR6TRR387fhf8Ar5dQ/wCD+J5fJf3mo/BXX5r2e8fVgZl1eDcd9q+4ebFGuTtQR/d2/eUhurZrf8dXn2Lwrpz2F3LY6Q93Al7d2JKtBZkHLKyjKLnYCwxtUk5GM12JAIIIyD1BqjpOi2GhWz22kwfZrd5DIIVdjHGT1CKThF4+6uBnJxyaN3934foG34/j+pxuvS6TL8I9dPhTVptVsxEwlnh1J75gny+aolZ3b7m7jPGeK7u18j7HD9j2fZ/LXyvL+7sxxjHbFSkAggjIPUGqOk6LYaFbPbaTB9mt3kMghV2McZPUIpOEXj7q4GcnHJoA5n4rz6Hb/DzVzrsunxTNY3KWRvGQMZjEwAj3fxn/AGea1tC8RaPceDItTtNTtbuys7UG4ntZRMsexAWB2Z5A7da0tV1ay0SwN5qUpjhDKg2RtI7sxwqqigszEnAABJqKy1DTvEujyPZyySW0u+CUFXgkQ9GVlIV0YehwRS1tK39W/wCHHpeN/wCr/wDDFjTdRtdX0u11LTpfOtLuFZoJNpXejDKnBAI4PQiub8eOltJ4ev78hdJstVWa+d+EiXypBHI5zgKspjJJ4HB7ZrqLW1gsrOG1tIlhggRY4o0GAigYAHsBVTWde0rw9Ytd61fQ2cKqzZkblgoydo6tgc4ANOTSd1sKN2rPqjmfCF/bQp4s1xJlGgyag91bTp86OiwR+bKmOql1c8dSCRnOa63TdRtdX0u11LTpfOtLuFZoJNpXejDKnBAI4PQinMINS04rlnt7mLGVZkJVh2IwRwfYinWtrBZWcNraRLDBAixxRoMBFAwAPYCnto+ll92n+QXvqvM5fx46W0nh6/vyF0my1VZr534SJfKkEcjnOAqymMkngcHtmq3hC/toU8Wa4kyjQZNQe6tp0+dHRYI/NlTHVS6ueOpBIznNdVqurWWiWBvNSlMcIZUGyNpHdmOFVUUFmYk4AAJNRWWoad4l0eR7OWSS2l3wSgq8EiHoyspCujD0OCKlXSdv62/yQ9G1f+t/8yxpuo2ur6Xa6lp0vnWl3Cs0Em0rvRhlTggEcHoRVmorW1gsrOG1tIlhggRY4o0GAigYAHsBUtU7X0JV7ahRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzHiK4EOnBDc6namRsCXTbM3Eg46ECN8A+uB9RXJT2N4PDPhqG7tL/AE2KAOZZ9Mhd7i2baRH8i72wwJL8Nzwa7fUb6axhV7fTbrUGY4MdqYwVGOp8x1GPxzWePFVpNpun3Vha3V6+oKWt7aFVWQhR8xO9lUY6HJ9MZzS6DF8Hx3UPha0ivbf7PIm9VUoUZ03Ha7KSSGYYYgnOSc81t1T0rU7fWNNjvbPd5cmRtddrIykqykdiCCD9KuVT3JRo0UUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHL+NLecTaDqsVtNdwaVqQuLmCCIySGNoZI96ooLMVMgbAGcA4yeKreGnmsovFXiOeyu47W9vDeW9q0DJO8ccEaFvLbDKzmM4VsHG3OM1v65rlvoNnFNPFNcS3Ey29tbW4UyTytnCLuIGcAnJIAAJJAFR6Tq9n4m066RrWSMxSPa3tjeIpeJ8DKOAWU5VgeCQQw5OaSvZ2/rb/gff6D0ur/1v/wfu9Szouqw65oVjqtrHLFDfW6XEaTKA6q6hgGAJAOD6msT4jXQi8A6zaJbX1zcX1jcW8EVnZTXLNI0bAAiNW2gk9WwPeunRFjRURQqqMKoGAB6Vna5rlvoNnFNPFNcS3Ey29tbW4UyTytnCLuIGcAnJIAAJJAFE0pXS6hBuLT7FPR9bhPg0XyWmoYsrb95BNYywTMUQEhUlVS3oD0J71o6LqsOuaFY6raxyxQ31ulxGkygOquoYBgCQDg+pqtpOr2fibTrpGtZIzFI9re2N4il4nwMo4BZTlWB4JBDDk5rVRFjRURQqqMKoGAB6Vcndtvr/X+REVZJLocx40t5xNoOqxW013BpWpC4uYIIjJIY2hkj3qigsxUyBsAZwDjJ4qt4aeayi8VeI57K7jtb28N5b2rQMk7xxwRoW8tsMrOYzhWwcbc4zW74h8QWnhrSJ9Rv4ruWGGN5WFtbtKQqqWJJAwvAPLED3qPVr+dvDy3dlpH9rQzRhp7NpFV3hZcsFVgVduQNhKg8/N2MXsnb+r2/y/P5abtX/q1/8y3ouqw65oVjqtrHLFDfW6XEaTKA6q6hgGAJAOD6mrtVNKv7LVNItL7SpFksriJZIGQYBQjjjt9O1PvNQs9PRHv7uC1WRtiNPKEDNgtgZPJwpOPQE9qqVk2RG7RYorLg8UaBdWCX1trmmzWkkhiS4ju42jZwCxUMDgkAE49ATUsGvaPdaR/attqtjNp3/P5Hco0PXH3wdvXjr1pDL9FU7XWNMvhCbLUbS4FwGMJhnV/M28NtwecZGcdKsLcQvcvbrNG00aq7xBhuVWzgkdQDtOPofSgCSiqmpXkthYtPb6fdajICALe1MYdsnsZGVeOvLCq3h/XrfxFpz3VvBcWzQzyW89vcqBJDKhwynaSpx6qSD60AalFFYviLxFH4ek0oTxK0eoXwtXleXYsA8qSQucjkDy8Y465zxQBtUVRstb0rUYreXT9Ts7uO63eQ8Fwjibb97aQfmx3x0pbnWtLspmivNSs7eRSAySzqpBKswGCe6ox+ik9jRsG5doqhBr2j3Wkf2rbarYzad/z+R3KND1x98Hb1469afa6xpl8ITZajaXAuAxhMM6v5m3htuDzjIzjpQBcoqNbiF7l7dZo2mjVXeIMNyq2cEjqAdpx9D6VQ1vxDY+HrZbjU1vfKIYl7WwnuQgUZJbykbaMdzik2luG5p0VzA+Inh46dDfbtTEFxKkNuW0a8DTs6s6iNTFucFVY5UEfmKu2vi7Q7y1sri3vSUvrs2UIaGRW88BiY2UqGRgEbIYDGPpT62Dpc2qKw9T8Y6LpBkF5cTl47xbEx29nNO5naIShAsaMW+Q7sgEfjSz+IJ5dDGp6JpN3fKkh822nhks5ygzkpHMilm6YB2g8/N2J0uOz2NuiqumalaaxpdtqOnTCe1uo1likAI3KRkcHkfSrVD00FuFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzHiKNp9PEA07UL9JG+ZdPuxbuvHdjInHsCfpWH/Y2oW/hrRTLa3zarYo0aPpb2yvCpGNh83EbDaFBwOqggV2VFHQDF8J6RNougrb3bbriSaW4lG8vtaRy+3ceuM4z3xmtqiigDRooooAKKKKACiiigAooooAKKKKACiiigAooooA53xbp19cSaPqel25u7jSL77SbRXVWnRonidVLELuAk3DcQMjGRnNUtGhv9G0/wAT+I9QsvIuL6Z71LCWdFMaRwKiq7qSgY+XkkEgbupxmuvopa2dv62/yHfVX/rf/MoaHqE2reH9P1G5tGspru2jme2dtxhLKCUJwMkZx0FZni3Tr64k0fU9Ltzd3GkX32k2iuqtOjRPE6qWIXcBJuG4gZGMjOa6KiqeruhK6Vmcho0N/o2n+J/EeoWXkXF9M96lhLOimNI4FRVd1JQMfLySCQN3U4zXQaHqE2reH9P1G5tGspru2jme2dtxhLKCUJwMkZx0FX6KX/A/AP8AgnN+Pk1C68Fapp2k6Rdanc6hZzWqLbyQoIy8ZUMxlkT5cntk+1Ja+Ik0bwnb3HiCwu9KliC20drMY5ZriQLwsawu+8nBwo54PAFdLRR387fh/wAOPe3lf8f+GOW8OQXnhb4Zo1/bRi8tbaa6kthKEVXYtL5e/oMbtu7pxmqWrWV34z0jwZfz6OqqL+DULyznZW+zr5EnB3Y3FXdRwM55xxXbUUdb+af3a/5C6W8mvv0POtX8HX1/4y+1NpkU9i3iC1vnLmMgxx2bRlypPJEm0dM9COma3/EuhzSzaNd6TaJImnan9tns49qGfckilhnClw0gfkjJB5zXTUUlorLvf8v8ht337W/P/M8r1Hwb4g1DUrnVLSxWz/tLWMy2rzoHhtJLUW80hKkrvJUPtUk8DnPSzYeA9bm0y5t2uxpMsFytvbSCa4Pm2kSbYv8Aj2uISOrHDE/TvXpdFPS1v60tb+vNi63/AK/r/JHG2fh/UfD/AIbvre9kv/ELXLr+7068uIZ1Xvtkubxivr8sifQ07wvBqHhfwJqEt7ZGEW8lzdWtlPcoZEiyXVJZhlS5OSXJb73LMQSewood7O3UatoUND1CbVvD+n6jc2jWU13bRzPbO24wllBKE4GSM46CsPx3pV7qX9gTWGm/2kNO1ZLya33opKLFKMjeQC25lwMjnHIGSOropuzd13uJXSs+1v0PMdR0a90/wxr/AIpu4U0q/h1I63ZW0jqTD5cSoY3KFl3Sqrhtpb/WdSRVhvCF7qVroN/f6dHPeXWvJq+qRylSIV8mRUX5uvlgxLxnkZAru77SdN1OW3k1LT7W7ktZPMt2uIVkML/3lJHyn3FW6S0t5W/C3+S+4Hr+P43/ACu/vOZ8S6HNLNo13pNokiadqf22ezj2oZ9ySKWGcKXDSB+SMkHnNcjqPg3xBqGpXOqWlitn/aWsZltXnQPDaSWot5pCVJXeSofapJ4HOenqlFC/r8P8gf8AX4/5nmlh4D1ubTLm3a7GkywXK29tIJrg+baRJti/49riEjqxwxP071uWHhbVNL8Ja1YXGo/2pcXkEiw/PcnBMZAXNxcTEZJ7FR6jvXX0UpLmi0+o07NNdDgtV8L6zfeFfBVhaPNY3WmXFu91PA0TPbBLaRGYbwythmAxhuv41UtfC2s2ei6aj6cJ77SNdOoXEscy51XcsitMu5vkciQEoxABUqDtwa9Ioqm25OXd3/L/AC/rS0pJRUeyt+f+f9anmHiHw94ivQuqWWn38E8viKPUPItJbU3UEK2fkZ/esYSxZc4y3DevTqrXxB/YvhdLnxImqQTLIYo01AW73V25yVVEtSUZjyAqgH5SSO9dLRS6W/rZL8kU3dpv+t/8zA8D6Zd6P4L0+01GJYboK8ssSHIiaR2cpkcHbuxn2rfoooJWiCiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

**Tabla de Impresión del código que halla el número de multiplicaciones W(n):**

**Modelo de impresión para matriz diagonal 3x3: **

**Modelo de entrada para probar código matriz 4x4:**



**Tabla con diferentes tipos de matrices:**

|  |  |
| --- | --- |
| Tipo de matriz | Numero de multiplicaciones |
| 2X2 | 4 |
| 3X3 | 16 |
| 4X4 | 42 |
| 6X6 | 160 |
| 7X7 | 264 |
| 10X10 | 828 |
| 15X15 | 2968 |

**Grafica:**

**Punto 1 b:**

**Punto 2 a:**

intersección entre los dos puntos:

**Código fuente:**

Nota de compilación:

-El código se programó en Windows

-Está escrito en Python 3 (editor Pychram)

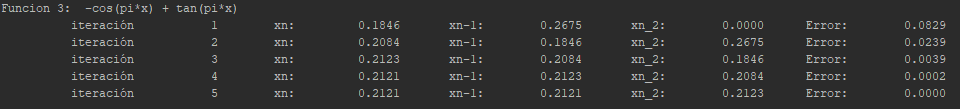
-El código tiene una gran probabilidad de “fallar” si se toman valores lejanos a los establecidos a continuación, que de por si son cercanos a las raíces.

Notas del código: para que el código funcione se deben proporcionar 2 valores iniciales ha las variables xn\_1 y xn\_2, dependiendo de la proximidad de estos valores a alguna de las raíces será el resultado obtenido.

from sympy import \*  
  
x = symbols('x')  
funcion1 = tan(pi\*x)  
funcion2 = cos(pi\*x)  
#print(funcion2(98).evalf())  
print(funcion1.evalf(subs={x: 98}))  
  
"""  
Para hallar la interseccion entre las funciones es necesario restarlas para producir una nueva funcion, su   
resultado sera una nueva funcion, los ceros de esa nueva funcion seran los puntos de interseccion de las   
funciones anteriores.   
"""  
funcion3 = funcion1 - funcion2  
print("Funcion 3: ", funcion3)  
#valores iniciales de xn-1 y xn-2 para iniciar la primera iteracion del algoritmo.  
xn\_1 = 0  
xn\_2 = 0.1  
xn = xn\_1-((funcion3.evalf(subs={x: xn\_1})\*(xn\_1-xn\_2))/(funcion3.evalf(subs={x: xn\_1})-funcion3.evalf(subs={x: xn\_2})))  
Tolerancia = 0.0001  
contador=0  
while abs(xn - xn\_1) > Tolerancia:  
 xn\_2 = xn\_1  
 xn\_1 = xn  
 xn = xn\_1 - ((funcion3.evalf(subs={x: xn\_1}) \* (xn\_1 - xn\_2)) / (  
 funcion3.evalf(subs={x: xn\_1}) - funcion3.evalf(subs={x: xn\_2})))  
 contador = contador+1  
 print("{:^30}{:.0f}{:^20}{:.4f}{:^20}{:.4f}{:^20}{:.4f}{:^20}{:.4f}".format('iteración', contador, "xn: "  
 , xn.evalf(), 'xn-1: ', xn\_1, 'xn\_2: ', xn\_2, 'Error: ', abs(xn - xn\_1)))

Resultado usando como valores iniciales:

xn\_1: 0

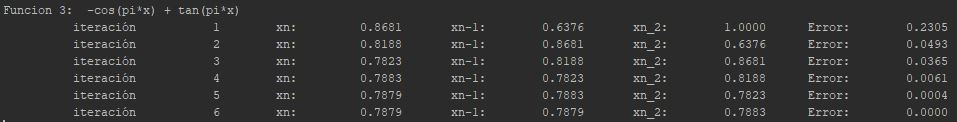
xn\_2: 0.1

Raíz: 0.2121 aproximado

Resultado usando como valores iniciales:

xn\_1: 1

xn\_2: 1.1

Raíz: 0.7879 aproximado

**Punto 2 b: otro método iterativo y comparar**

![Imagen que contiene texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGRhbmllbCBvcnRlZ29uAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNDMAAJKSAAIAAAADNDMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMTk6MDI6MjggMDc6Mzc6MTMAMjAxOTowMjoyOCAwNzozNzoxMwAAAGQAYQBuAGkAZQBsACAAbwByAHQAZQBnAG8AbgAAAP/hCyFodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDE5LTAyLTI4VDA3OjM3OjEzLjQzNDwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5kYW5pZWwgb3J0ZWdvbjwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAFRAOIDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD3e+8S2OjeRBeQapI7RK4NnpN1dLjpy0UbAHjoTn86S88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVrwf8e0X+4P5VJQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAQW95Hc20U8azKkqB1EkDxsARnlWAKn2IBHeip6KehPvd/6+85LxXHqaw6PJpmv3+lia6htZI7aK3dWVzy372JyG9MHHtXVQo0UEcbyvMyqFMjgBnIHU4AGT7AD2rG1TwrpniKO0k1M3+bdVaMW2pXFsqsOQ2IpFBYdieRWzDEsEEcSFysahQXcuxAGOWJJJ9ycmktE0+5T3v5D6KKKACiiigDjvGnji58HXlssmlQ3Nteo0VpL9sKNLd4ykBTYdoYZ/eE7Vwd2OM9VZSXMthBJfwJbXLRgywxy+YsbY5UNgbseuBWVqfg7RdY1Ke/1G3nluJ7N7FyLyZF8l/vKFVwq59QAfeqwv7rw9HHpOleEdcvrO0RY4Z47u2dWXHQNNciQ46fMO3pQtrP+t/8Agf0rse+n9f1/XZUfGfii78MeINKNsz3QvreeKHTSVRLi4DRCPMmwlM7yMk7enGa6rTpL2XT4n1W2gtbthmSG3nMyIc9A5VSeP9kf1rHudA0/xbaLda/pN9ayyW0lq1rPeFGSNmG4HyZSmW2qdwOcYGRyK2rKzi0+xitLdpmiiXapnmeZ8e7uSzfUk0dLP+v6/wCB01Oun9f1/W+k9FFFAHH+ObzxOl5o+neFzbwfb7ho3uWuxFICsTvtAa3mUAhPvFSe2BncLmtX2o6H4JizcmTVJWt7NbiQq+2aaRIt52oittL5+4oOOgzireteFNM1+8t7rUTfia1z5JtdTubYISCCQIpFGcMRnrg46VNq+iR6p4ek0sTSRfKnkzsxkeKRCGjcknLEMqnk845PNC037j0ujA8ZeN7rwZdWiS6XFd297G0VpMbzY813jKQFBGQoYZ/eZ2rg5xxnq7KS5lsIJL+BLa5aMGWGOXzFjbHKhsDdj1wKydR8HaNq+oS32pwTTXU9k9jIy3cyKYX+8oQPhc+oGfeq4v7rw9HHpOleEdcvrO0RY4Z47u2dWXHQNNciQ46fMO3pR0s/63/4H9K7Xp/X9f15UfGfii78MeINKNsz3QvreeKHTSVRLi4DRCPMmwlM7yMk7enGav3WrarY3nh+XU4obf7fcPZ3Npby+ciOyM6OJCisceXtIwB8564Bp9zoGn+LbRbrX9JvrWWS2ktWtZ7woyRsw3A+TKUy21TuBzjAyORVk+HIftWkETSva6VveGGeR5naUrsV2ldix2qzjnOd2c8U1pv/AF/X9baj8v6f9f076bFcD4suvEC+ObOw0jUdbjtbm3QyJp0VmyWxMyxmV/OiZyoDEkLnp/CMmu+rD1TwfpOr6r/aV22pR3flCHfaatdWw2ZzjbFIo689Oanqn/Ww+j/rqVdS1bXdDfR9Pg0+HXJ7qPyXumuhbFplTJdk2EKh2kkqSRnAU07Vtf13T7jS7e30G3u5r9WRlGo7BDKFLEEmPmPAPzD5unyHs658C6JdR2CN/aUS6dCsFqLbV7uDy1AwPuSjLYOCxyxHU1PqvhHS9aure5vn1IS2ybImttVurfaORnEcigsQSCx5I4JqhEU+tay90tlpukWc17DDHNeJcag0UcQcsAEcRMXOUbqqjGOewrXnizUSujSaJoiX8WrRny/NvRA8LhS2HGxhtAByyknPRW61qaj4b07VHie5F2kkShBLbX01u7qOiu0bqXHJOGJGSfU1X1Hwbo+qTWkk630Bs4xFbrZalc2qRKARwsUiqDg4zjOOOlIDYtXnktImu4khnKgyRpJvVW7gNgZHvgfQVy/ifxtPoesppun6RNqEqxJPOVgu2CIzMBgwW8wLfI3Dbe3J5x1iII41RckKABuYk/iTyazNV8OadrFxFcXYuY54htWazvJrWQrnO0tEyllzztJIz2oe+gLbUxfEHjW80mw028s9Aup4ryLzpDcRXCG3GAdrrFDKyvz0cIvB+amy+JfElxe6IujaPpM0Opaa14wudUdCjDy8qGjhdSB5g5Gd3X5cfNq6h4Q0jU5o5roXwlSFbfzINSuIWeNSSFdkkBcZY53ZznnNSal4X0nVrW1t7qCWOO0Qxw/ZbqW2KIQAU3RspKkAZUnBwOOKemoGshYxqZAFfA3BTkA+x4zRUVtZ21naxW1pBHDBCgjijRQFRQMAAdgAKKHYWpl33iWx0byILyDVJHaJXBs9JurpcdOWijYA8dCc/nSXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7iteD/j2i/3B/KpKQzEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAgt7yO5top41mVJUDqJIHjYAjPKsAVPsQCO9FT0U9Cfe7/195i33iWx0byILyDVJHaJXBs9JurpcdOWijYA8dCc/nSXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7iteD/j2i/3B/KpKRRiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBFbXCXdrFcRCRUlQOoliaNwCM8qwDKfYgEd6loooAKKKKAI4P8Aj2i/3B/KsLVp72715tOs9Tm05bazF2Wt0iZpSXYbT5isAvy84APzdRit2D/j2i/3B/KqOr6Bp+uCL+0EnPl5A8i6lg3Keqt5bLvU45Vsqe4pO/QZJol+2q+H9P1CSPy3u7WOdkH8JZA2P1q9SIixxqkahEUAKqjAA9BS1UrN3RK2Oa8WtqMSxyadrk9jNsK2tla20Uj3k3ZW8wNlOmduzA3EuB06KDzfs8f2jZ520eZs+7uxzjPbNYuseDNH13UTfX4vhcNB9nZrXU7m2DR5J2lYpFBGSeoqxqfhrSdYttOt9RtPOi025iurRfMdfLlj+43BGcZ6HIPektrMb3KHjI6zBp32vR7jUF8kEmHTYLd5Gb+85myDGMcqg3nPHpVPWbzUrnRdPv8AT/EDW01xaq9ra6fbRyfbpmUMP9apPl9OmwqMlmA6bWr+GNL1yZZdQin8wJ5Ze3u5bcyJydjmNl3pyflbI5PFVNR8DaFql0k88N5C6WwtFFlqNxap5IzhNsUirjn0pbf16j63/roSa1Pf2sOlTJdtBI15BFcRRKhjlDsFYfMpYDnjBBrO8Wa/ewa5ZaBpMepG5ureS5aTTIoGlRFZVyDOREo+bktk9ABk1p6r4R0nWUtUvft6paKqwpa6nc26rt+6cRyKCR2JyfeptQ8Nabqdtaw3i3JNmNsM0d5NHMowAQZVcOQQBnLHdjnNP/P8Lf0yV+n4lvTJ0udJtZobl7pHiUieQKGk4+8QoABPfAA9hVqo7e3itLaK3to1ihiQJHGgwFUDAAHpipKb3BbGN4hmurVtOmtLySENfQxSRKqFZUd9pBypI69iK2ax9b8Lab4hkhfUmv8AMJBQWupXFsoIOQ22KRQSD0J5FP1LwzpWr2unW+p273MemXEV1amSeQsksf3HLbsuRk/eJz3zSjtZ9/w0G97+X46lPVp72715tOs9Tm05bazF2Wt0iZpSXYbT5isAvy84APzdRisTUvF2oX0ehWGm2+pJeatpov5P7MihaWJfkzg3BEajL8lsnoAMmuq1fQNP1wRf2gk58vIHkXUsG5T1VvLZd6nHKtlT3FJqnh3TdXjt0u4ZENtnyXtbiS3eMEAFQ8bKwUgDK5wcDI4pLb+vP/gfd5je/wDXl/wfvMTXrjVW8MWuo6DqOp3CJAG/0GC1aac4+/J5o27OPmWNQ2T8vpTzqN9rM1rDaaubMDTItQaayjRhcFyeP3qNiP5ewDfMORitG/8ACOi6lHCk9tJEsMQgUWlzLb5iHSNvLZd6cn5WyOTxUuoeGdK1O3t4LiCSOK2XZGlrcSW42YA8s+Wy7kwB8hyvHSh9f67/APAF/X5f8FE+iX7ar4f0/UJI/Le7tY52QfwlkDY/Wr1IiLHGqRqERQAqqMAD0FLVSs3dCWxz2rT3t3rzadZ6nNpy21mLstbpEzSkuw2nzFYBfl5wAfm6jFaeiX7ar4f0/UJI/Le7tY52QfwlkDY/Wo9X0DT9cEX9oJOfLyB5F1LBuU9Vby2XepxyrZU9xSat4c0rW4bCLU7QSx6ddR3dqquyCKWPOxhtIzjJ4PHtSjorP+t/+B9w3vczvGR1mDTvtej3GoL5IJMOmwW7yM395zNkGMY5VBvOePSqes3mpXOi6ff6f4ga2muLVXtbXT7aOT7dMyhh/rVJ8vp02FRkswHTa1fwxpeuTLLqEU/mBPLL293LbmROTscxsu9OT8rZHJ4qpqPgbQtUuknnhvIXS2FoostRuLVPJGcJtikVcc+lLb+vUfW/9dCTWp7+1h0qZLtoJGvIIriKJUMcodgrD5lLAc8YINZ3izX72DXLLQNJj1I3N1byXLSaZFA0qIrKuQZyIlHzclsnoAMmtPVfCOk6ylql79vVLRVWFLXU7m3Vdv3TiORQSOxOT71NqHhrTdTtrWG8W5JsxthmjvJo5lGACDKrhyCAM5Y7sc5p/wCf4W/pkr9PxLemTpc6TazQ3L3SPEpE8gUNJx94hQACe+AB7CrVR29vFaW0VvbRrFDEgSONBgKoGAAPTFSU3uC2CiiikMxb7xLY6N5EF5BqkjtErg2ek3V0uOnLRRsAeOhOfzpLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxWvB/x7Rf7g/lUlAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAEVtcJd2sVxEJFSVA6iWJo3AIzyrAMp9iAR3qWiigAooooAxb7xLY6N5EF5BqkjtErg2ek3V0uOnLRRsAeOhOfzpLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxWvB/wAe0X+4P5VJQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBFbXCXdrFcRCRUlQOoliaNwCM8qwDKfYgEd6loooAKKKKAI4P8Aj2i/3B/KsrxDNdWradNaXkkIa+hikiVUKyo77SDlSR17EVqwf8e0X+4P5Vl634W03xDJC+pNf5hIKC11K4tlBByG2xSKCQehPIo6r1QdGbFFRwQrb28cMZcpGgRTJIzsQBjlmJLH3JJPepKAOa8WtqMSxyadrk9jNsK2tla20Uj3k3ZW8wNlOmduzA3EuB06KDzfs8f2jZ520eZs+7uxzjPbNYuseDNH13UTfX4vhcNB9nZrXU7m2DR5J2lYpFBGSeoqxqfhrSdYttOt9RtPOi025iurRfMdfLlj+43BGcZ6HIPehbWYPcz/ABa2oxLHJp2uT2M2wra2VrbRSPeTdlbzA2U6Z27MDcS4HRvitteh0aO70+4vllhjzJBpUEDsz45LGfOYxjlUG854ParWseDNH13UTfX4vhcNB9nZrXU7m2DR5J2lYpFBGSeoqTUfCej6osIuoJ18mIQg293NAXjHSNzGyl05Pytkcnjmlry2Hpf+v6/rzKl7qF3JpOhaja6hgXM9qJRbopinWQjON6lgOcjBB6UeMjrMGnfa9HuNQXyQSYdNgt3kZv7zmbIMYxyqDec8elWdV8IaRrCWqXS3sUVoqrBFZajcWqJt+78sTqMjHBxkdqXUPCWkaokIvI7omGIQeZHfTxvJGP4JHVw0q8nIcsCSSeppy1Tt3FHS1+xoaXdG+0ezuzJFKZ4El8yHOxtyg5XPODnjPNWqZDDFbW8cFvGsUUShEjRcKigYAAHQAU+nKzegldLU57Vp72715tOs9Tm05bazF2Wt0iZpSXYbT5isAvy84APzdRitPRL9tV8P6fqEkflvd2sc7IP4SyBsfrUer6Bp+uCL+0EnPl5A8i6lg3Keqt5bLvU45Vsqe4pNW8OaVrcNhFqdoJY9Ouo7u1VXZBFLHnYw2kZxk8Hj2pR0Vn/W/wDwPuG97kPiGa6tW06a0vJIQ19DFJEqoVlR32kHKkjr2IrC+Ivim+0GxaHTk1C3b7O9y1/b6bJdIm3pHlUZVLHqXwAoOOSCN7W/C2m+IZIX1Jr/ADCQUFrqVxbKCDkNtikUEg9CeRUupeH7DV9DGkX/ANqez2hGCXs0buAMYaRXDtnvknPfNJXS+f8Al/w4dfkV9curmKPS7qyu5oEkvYI3iMSgSI7AEMHXcpwe2CDWb4uvtTtNUsRDc6vaaeY3ZpNJ05bt5ZgRtjfMb7EIz82AM9XXHOnq/hPS9c+zDUH1Ei2CiMQarcwcg5DHy5F3MD/Ecn3qa78O2F8tot0166WqbEQahOqyLgDEoD4lzjnzN2ec9TR007v7rW/4Idfl+pJoGpPrHhzTdSkhMD3lrHO0ROdhZQ2M/jWhSIixoqIoVVGFUDAA9KWqdm9AOe1ae9u9ebTrPU5tOW2sxdlrdImaUl2G0+YrAL8vOAD83UYrT0S/bVfD+n6hJH5b3drHOyD+EsgbH61Hq+gafrgi/tBJz5eQPIupYNynqreWy71OOVbKnuKTVvDmla3DYRanaCWPTrqO7tVV2QRSx52MNpGcZPB49qUdFZ/1v/wPuB73KOrT3t3rzadZ6nNpy21mLstbpEzSkuw2nzFYBfl5wAfm6jFYup67qt1aaDfrLq2n2V5Yi4k/sjThdu87BGWJ8xybEwW+bAHq6456nV9A0/XBF/aCTny8geRdSwblPVW8tl3qccq2VPcUX+gWGpNbm6FwEt1KpDDdywxMp/heNGCuOMYYEUtbf15/5r7h6X/ry/r5mBbaxqHiOKwa3vZ9HL6TDqTpCkTu7Pn5DvVhtG0524Jz1FJq+oa3feDtP1vS5dQhaW0juHtdNgt3k3Mgb5zPnMY6FUG/0J6Vv6p4d03WI4UvYpgsI2qLe5lgyp6o3lsu5DgZRsqcdKi1TwrpGsNG15BKhjjEWbW6lt90Y/5Zt5bLvTk/K2RyeKctU7f1v/wPuDS/9eRe0u6N9o9ndmSKUzwJL5kOdjblByuecHPGeatUyGGK2t44LeNYoolCJGi4VFAwAAOgAp9OVm9CVdLUKKKKQzFvvEtjo3kQXkGqSO0SuDZ6TdXS46ctFGwB46E5/OkvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fa8H/HtF/uD+VSUAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UARW1wl3axXEQkVJUDqJYmjcAjPKsAyn2IBHepaKKACiiigDFvvEtjo3kQXkGqSO0SuDZ6TdXS46ctFGwB46E5/OkvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fa8H/HtF/uD+VSUAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UARW1wl3axXEQkVJUDqJYmjcAjPKsAyn2IBHepaKKACiiigCOD/j2i/wBwfyrnvFrajEscmna5PYzbCtrZWttFI95N2VvMDZTpnbswNxLgdOhg/wCPaL/cH8qxtY8GaPruom+vxfC4aD7OzWup3NsGjyTtKxSKCMk9RSd+g0bUHm/Z4/tGzzto8zZ93djnGe2afTIYUt4I4YV2xxqEUZzgAYFPqnvoSttTmvFrajEscmna5PYzbCtrZWttFI95N2VvMDZTpnbswNxLgdOig837PH9o2edtHmbPu7sc4z2zWLrHgzR9d1E31+L4XDQfZ2a11O5tg0eSdpWKRQRknqKsan4a0nWLbTrfUbTzotNuYrq0XzHXy5Y/uNwRnGehyD3pLazG9zP8WtqMSxyadrk9jNsK2tla20Uj3k3ZW8wNlOmduzA3EuB0sa1Pf2sOlTJdtBI15BFcRRKhjlDsFYfMpYDnjBBo1jwZo+u6ib6/F8LhoPs7Na6nc2waPJO0rFIoIyT1FO1XwjpOspape/b1S0VVhS11O5t1Xb904jkUEjsTk+9C6eq/r+v+HHr9z/r+v+Gq+LW1GJY5NO1yexm2FbWytbaKR7ybsreYGynTO3ZgbiXA6UvE2v6lBqmnaBYxagb+7tXuZn0mKF5EClVJU3BEarlurZPQAZNaOo+BtE1S4S4u/wC0vOS1Fpvh1a6hLxDPytskG/qclsk9yauaj4b0zVLe1huoplFoNsElvdSwSRrgAqHjZWwQBkZwcDOaP6/P/gfkH9fl/X4lvTJ0udJtZobl7pHiUieQKGk4+8QoABPfAA9hVqo7e3itLaK3to1ihiQJHGgwFUDAAHpipKb3EtjntWnvbvXm06z1ObTltrMXZa3SJmlJdhtPmKwC/LzgA/N1GK09Ev21Xw/p+oSR+W93axzsg/hLIGx+tR6voGn64Iv7QSc+XkDyLqWDcp6q3lsu9TjlWyp7ik1bw5pWtw2EWp2glj066ju7VVdkEUsedjDaRnGTwePalHRWf9b/APA+4b3uUdWnvbvXm06z1ObTltrMXZa3SJmlJdhtPmKwC/LzgA/N1GKoxatqHiBbH7PfzaSW0mHUnFukbM7P/AfMVsKNpzjB56jFbur6Bp+uCL+0EnPl5A8i6lg3Keqt5bLvU45Vsqe4puqeHdN1iOGO8imVIBtQW1zJb5XujeWy7kOBlGypx0pWdrf11/4H3D0v/Xl/wfvOP8VeOdQtvCVhdWUF/ZS3emi/kvLbTZbpIjtDCLKo6qSTyX4Cg9yCN7xbLq66Sl/olxqSKib/ACLC2gMrEjIMnn/wDuqrv9PStbVtCsNb0htMv0mFmwAMdtcyW+QONu6NlO32ziq+p+FNJ1fyjfR3JaOMQ74r2aJpIx/BIyODIvJ4fIOT605a3sJabl7S7o32j2d2ZIpTPAkvmQ52NuUHK55wc8Z5q1TIYYra3jgt41iiiUIkaLhUUDAAA6ACn05Wb0ErpanPatPe3evNp1nqc2nLbWYuy1ukTNKS7DafMVgF+XnAB+bqMVp6Jftqvh/T9Qkj8t7u1jnZB/CWQNj9aj1fQNP1wRf2gk58vIHkXUsG5T1VvLZd6nHKtlT3FJq3hzStbhsItTtBLHp11Hd2qq7IIpY87GG0jOMng8e1KOis/wCt/wDgfcN73KOrT3t3rzadZ6nNpy21mLstbpEzSkuw2nzFYBfl5wAfm6jFQzare3eg+HtXguJLQ3sloZrdUQq6y43KdykjG7sQeK1dX0DT9cEX9oJOfLyB5F1LBuU9Vby2XepxyrZU9xVfWPCela6bf7d9uRbYDyktNRuLVFwcg7YnUEjsSMihaWv3X5/5WQPW/p+n9My/F97rEeoRwaPPfRrFavcONOW2ZwQcDzfPB/dnn7g3HB9Kr694mv2u9J0fTFvpLu/sjeSS6PHC7qoKAlWuCI1XLdWyTwAMmt+/8L6ZqcVul2Lz/R4xErxX88Tun92R0cNIPUOWzyT1p+p+HNM1aK2juoZI/svED2txJbPGCACoaJlYKQBlc4OBkcUlov68/wDgfcP+vy/4P3lrTJ0udJtZobl7pHiUieQKGk4+8QoABPfAA9hVqo7e3itLaK3to1ihiQJHGgwFUDAAHpipKp7krYKKKKQzFvvEtjo3kQXkGqSO0SuDZ6TdXS46ctFGwB46E5/OkvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fa8H/HtF/uD+VSUAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UARW1wl3axXEQkVJUDqJYmjcAjPKsAyn2IBHepaKKACiiigDFvvEtjo3kQXkGqSO0SuDZ6TdXS46ctFGwB46E5/OkvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fa8H/HtF/uD+VSUAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UARW1wl3axXEQkVJUDqJYmjcAjPKsAyn2IBHepaKKACiiigCOD/j2i/3B/Kuf8ZHWYNO+16Pcagvkgkw6bBbvIzf3nM2QYxjlUG8549K6CD/AI9ov9wfyrN1fwxpeuTLLqEU/mBPLL293LbmROTscxsu9OT8rZHJ4pNNrQat1Lml3RvtHs7syRSmeBJfMhzsbcoOVzzg54zzVqmQwxW1vHBbxrFFEoRI0XCooGAAB0AFPqpWb0JV0tTmvFrajEscmna5PYzbCtrZWttFI95N2VvMDZTpnbswNxLgdOig837PH9o2edtHmbPu7sc4z2zWLrHgzR9d1E31+L4XDQfZ2a11O5tg0eSdpWKRQRknqKsan4a0nWLbTrfUbTzotNuYrq0XzHXy5Y/uNwRnGehyD3pLazG9zP8AFrajEscmna5PYzbCtrZWttFI95N2VvMDZTpnbswNxLgdLGtT39rDpUyXbQSNeQRXEUSoY5Q7BWHzKWA54wQaNY8GaPruom+vxfC4aD7OzWup3NsGjyTtKxSKCMk9RTtV8I6TrKWqXv29UtFVYUtdTubdV2/dOI5FBI7E5PvQunqv6/r/AIcev3P+v6/4Z3iGa6tW06a0vJIQ19DFJEqoVlR32kHKkjr2IrL8XX2p2mqWIhudXtNPMbs0mk6ct28swI2xvmN9iEZ+bAGerrjnR1Twhpesx2qX76kVtFVYvJ1a6h+70Ztkg3MMfebLe9WLvw7YXy2i3TXrpapsRBqE6rIuAMSgPiXOOfM3Z5z1NLp8/wBLf8EOvy/Uk0DUn1jw5pupSQmB7y1jnaInOwsobGfxqHVfEtjo1ysF5Bqkjsm8Gz0m6ulxkjloo2APHQnP51qoixoqIoVVGFUDAA9KWqlq7oEcze311q2qJbadqN1pkUdgl8Cluiyy7mICukyEqAF5GA3PUYrY0S/bVfD+n6hJH5b3drHOyD+EsgbH61Hq+gafrgi/tBJz5eQPIupYNynqreWy71OOVbKnuKTVvDmla3DYRanaCWPTrqO7tVV2QRSx52MNpGcZPB49qFtZ/wBb/pb7ge9/62/z/Mo6tPe3evNp1nqc2nLbWYuy1ukTNKS7DafMVgF+XnAB+bqMVRi1bUPEC2P2e/m0ktpMOpOLdI2Z2f8AgPmK2FG05xg89Rit3V9A0/XBF/aCTny8geRdSwblPVW8tl3qccq2VPcU3VPDum6xHDHeRTKkA2oLa5kt8r3RvLZdyHAyjZU46VNna39df+B9w9L/ANeX/B+8xItW1DxAtj9nv5tJLaTDqTi3SNmdn/gPmK2FG05xg89RiodVn1fUfCdv4htNfvtKM2nQyRWNnBbkPcSDKhmlic8s6KAMYx3zx0OqeHdN1iOGO8imVIBtQW1zJb5XujeWy7kOBlGypx0q5PYWtxDDFLCpjgkSSNASoVkOV4HoQDjpwKrTX1/V/pb7hf1+X6/mPtUlitIUuZfOmWNRJLtC72A5bA6ZPOKloooerEtFY57Vp72715tOs9Tm05bazF2Wt0iZpSXYbT5isAvy84APzdRitPRL9tV8P6fqEkflvd2sc7IP4SyBsfrUer6Bp+uCL+0EnPl5A8i6lg3Keqt5bLvU45Vsqe4pNW8OaVrcNhFqdoJY9Ouo7u1VXZBFLHnYw2kZxk8Hj2pR0Vn/AFv/AMD7hve5R1ae9u9ebTrPU5tOW2sxdlrdImaUl2G0+YrAL8vOAD83UYqjFq2oeIFsfs9/NpJbSYdScW6Rszs/8B8xWwo2nOMHnqMVu6voGn64Iv7QSc+XkDyLqWDcp6q3lsu9TjlWyp7im6p4d03WI4Y7yKZUgG1BbXMlvle6N5bLuQ4GUbKnHSlZ2t/XX/gfcPS/9eX/AAfvMSLVtQ8QLY/Z7+bSS2kw6k4t0jZnZ/4D5ithRtOcYPPUYqHVZ9X1Hwnb+IbTX77SjNp0MkVjZwW5D3EgyoZpYnPLOigDGMd88dDqnh3TdYjhjvIplSAbUFtcyW+V7o3lsu5DgZRsqcdKuT2FrcQwxSwqY4JEkjQEqFZDleB6EA46cCq019f1f6W+4X9fl+v5j7VJYrSFLmXzpljUSS7Qu9gOWwOmTzipaKKHqxLRWCiiikMxb7xLY6N5EF5BqkjtErg2ek3V0uOnLRRsAeOhOfzpLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxWvB/x7Rf7g/lUlAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAEVtcJd2sVxEJFSVA6iWJo3AIzyrAMp9iAR3qWiigAooooAxb7xLY6N5EF5BqkjtErg2ek3V0uOnLRRsAeOhOfzpLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxWvB/x7Rf7g/lUlAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAGJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuKLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxW3RQBiXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ii88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVt0UAYl54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FbdFAEVtcJd2sVxEJFSVA6iWJo3AIzyrAMp9iAR3qWiigAooooAjg/49ov8AcH8q434i+Kb7QbFodOTULdvs73LX9vpsl0ibekeVRlUsepfACg45II7KD/j2i/3B/KqmtaLZ6/pkmn6mJ2tpPvrBcyQFh6Fo2U49RnBo1uBdjkEsSSKGCuoYBlKnB9QeQfY06mxxiKJI1LFUUKCzFjgepPJPuadQ/IDmvFrajEscmna5PYzbCtrZWttFI95N2VvMDZTpnbswNxLgdOig837PH9o2edtHmbPu7sc4z2zWLrHgzR9d1E31+L4XDQfZ2a11O5tg0eSdpWKRQRknqKsan4a0nWLbTrfUbTzotNuYrq0XzHXy5Y/uNwRnGehyD3oW1mD3M/xa2oxLHJp2uT2M2wra2VrbRSPeTdlbzA2U6Z27MDcS4HSxrU9/aw6VMl20EjXkEVxFEqGOUOwVh8ylgOeMEGjWPBmj67qJvr8XwuGg+zs1rqdzbBo8k7SsUigjJPUU7VfCOk6ylql79vVLRVWFLXU7m3Vdv3TiORQSOxOT70Lp6r+v6/4cev3P+v6/4ar4tbUYljk07XJ7GbYVtbK1topHvJuyt5gbKdM7dmBuJcDot/PqV3qy6dHqT6bJb2K3crWiRsZXLEFf3ithPlPQA/N1GKfqPgbRNUuEuLv+0vOS1Fpvh1a6hLxDPytskG/qclsk9yauaj4a0zVLe3gu45xHbrsQQXcsOUwBsYowLqcDKtkHHIpa2/rz/wCB/W7/AK/L/hifRL9tV8P6fqEkflvd2sc7IP4SyBsfrV6kRFjjVI1CIoAVVGAB6ClqpWbuiVsc9q097d682nWepzacttZi7LW6RM0pLsNp8xWAX5ecAH5uoxWnol+2q+H9P1CSPy3u7WOdkH8JZA2P1qPV9A0/XBF/aCTny8geRdSwblPVW8tl3qccq2VPcUmreHNK1uGwi1O0EsenXUd3aqrsgiljzsYbSM4yeDx7Uo6Kz/rf/gfcN73KOrT3t3rzadZ6nNpy21mLstbpEzSkuw2nzFYBfl5wAfm6jFUYtW1DxAtj9nv5tJLaTDqTi3SNmdn/AID5ithRtOcYPPUYrd1fQNP1wRf2gk58vIHkXUsG5T1VvLZd6nHKtlT3FN1Tw7pusRwx3kUypANqC2uZLfK90by2XchwMo2VOOlKztb+uv8AwPuHpf8Ary/4P3mJFq2oeIFsfs9/NpJbSYdScW6Rszs/8B8xWwo2nOMHnqMVYm1W9u9B8PavBcSWhvZLQzW6ohV1lxuU7lJGN3Yg8Vp6p4d03WI4Y7yKZUgG1BbXMlvle6N5bLuQ4GUbKnHSodY8J6Vrpt/t325FtgPKS01G4tUXByDtidQSOxIyKrr87/K7/SyJ6fL9P89TaoqOCFbe3jhjLlI0CKZJGdiAMcsxJY+5JJ71JSGc9q097d682nWepzacttZi7LW6RM0pLsNp8xWAX5ecAH5uoxWnol+2q+H9P1CSPy3u7WOdkH8JZA2P1qPV9A0/XBF/aCTny8geRdSwblPVW8tl3qccq2VPcUmreHNK1uGwi1O0EsenXUd3aqrsgiljzsYbSM4yeDx7UR0Vn/W//A+4Hvco6tPe3evNp1nqc2nLbWYuy1ukTNKS7DafMVgF+XnAB+bqMVRi1bUPEC2P2e/m0ktpMOpOLdI2Z2f+A+YrYUbTnGDz1GK3dX0DT9cEX9oJOfLyB5F1LBuU9Vby2XepxyrZU9xTdU8O6brEcMd5FMqQDagtrmS3yvdG8tl3IcDKNlTjpSs7W/rr/wAD7h6X/ry/4P3mJFq2oeIFsfs9/NpJbSYdScW6Rszs/wDAfMVsKNpzjB56jFWJtVvbvQfD2rwXElob2S0M1uqIVdZcblO5SRjd2IPFaeqeHdN1iOGO8imVIBtQW1zJb5XujeWy7kOBlGypx0qHWPCela6bf7d9uRbYDyktNRuLVFwcg7YnUEjsSMiq6/O/yu/0sieny/T/AD1Nqio4IVt7eOGMuUjQIpkkZ2IAxyzElj7kknvUlIYUUUUAYt94lsdG8iC8g1SR2iVwbPSbq6XHTloo2APHQnP50l54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rXg/wCPaL/cH8qkoAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAitrhLu1iuIhIqSoHUSxNG4BGeVYBlPsQCO9S0UUAFFFFAGLfeJbHRvIgvINUkdolcGz0m6ulx05aKNgDx0Jz+dJeeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK14P+PaL/cH8qkoAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAxLzxbp1iIDPbaw32iFZk8jRbybCnoG2RHY3qrYYdxReeLdOsRAZ7bWG+0QrMnkaLeTYU9A2yI7G9VbDDuK26KAMS88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcUXni3TrEQGe21hvtEKzJ5Gi3k2FPQNsiOxvVWww7ituigDEvPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3FF54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4rbooAitrhLu1iuIhIqSoHUSxNG4BGeVYBlPsQCO9S0UUAFFFFAEcH/HtF/uD+Vcx4vPiAalYnRjrQsvKk+0HRxYlw+U2bvtX8ON/3Oa6eD/j2i/3B/Ks3V/DOl63cJPfxTCZE8vzLa6lt2dM52OY2Uumf4WyOTxS13Qy/Y3cN/p9veWrl4biJZY2IxuVgCDj6Gp6ZDDFbW8cFvGsUUShEjRcKigYAAHQAU+qdr6ErY5rxa2oxLHJp2uT2M2wra2VrbRSPeTdlbzA2U6Z27MDcS4HTooPN+zx/aNnnbR5mz7u7HOM9s1i6x4M0fXdRN9fi+Fw0H2dmtdTubYNHknaVikUEZJ6irGp+GtJ1i20631G086LTbmK6tF8x18uWP7jcEZxnocg96S2sxvcz/FrajEscmna5PYzbCtrZWttFI95N2VvMDZTpnbswNxLgdLGtT39rDpUyXbQSNeQRXEUSoY5Q7BWHzKWA54wQaNY8GaPruom+vxfC4aD7OzWup3NsGjyTtKxSKCMk9RTtV8I6TrKWqXv29UtFVYUtdTubdV2/dOI5FBI7E5PvQunqv6/r/hx6/c/6/r/hqvi1tRiWOTTtcnsZthW1srW2ike8m7K3mBsp0zt2YG4lwOi38+pXerLp0epPpslvYrdytaJGxlcsQV/eK2E+U9AD83UYp+o+BtE1S4S4u/7S85LUWm+HVrqEvEM/K2yQb+pyWyT3Jq5qPhrTNUt7eC7jnEduuxBBdyw5TAGxijAupwMq2Qccilrb+vP/AIH9bv8Ar8v+GJ9Ev21Xw/p+oSR+W93axzsg/hLIGx+tV9V8S2OjXKwXkGqSOybwbPSbq6XGSOWijYA8dCc/nWqiLHGqRqERQAqqMAD0FLVS1d0JbanM3t9datqiW2najdaZFHYJfApbossu5iArpMhKgBeRgNz1GK2NEv21Xw/p+oSR+W93axzsg/hLIGx+tR6voGn64Iv7QSc+XkDyLqWDcp6q3lsu9TjlWyp7ik1bw5pWtw2EWp2glj066ju7VVdkEUsedjDaRnGTwePahbWf9b/pb7ge9/62/wA/zKOrT3t3rzadZ6nNpy21mLstbpEzSkuw2nzFYBfl5wAfm6jFUYtW1DxAtj9nv5tJLaTDqTi3SNmdn/gPmK2FG05xg89Rit3V9A0/XBF/aCTny8geRdSwblPVW8tl3qccq2VPcU3VPDum6xHDHeRTKkA2oLa5kt8r3RvLZdyHAyjZU46VNna39df+B9w9L/15f8H7zEi1bUPEC2P2e/m0ktpMOpOLdI2Z2f8AgPmK2FG05xg89RiiLVtQ8QLY/Z7+bSS2kw6k4t0jZnZ/4D5ithRtOcYPPUYrb1Tw7pusRwx3kUypANqC2uZLfK90by2XchwMo2VOOlGqeHdN1iOGO8imVIBtQW1zJb5XujeWy7kOBlGypx0pvW9v63/zX3C/r8v+D95Nol+2q+H9P1CSPy3u7WOdkH8JZA2P1q9SIixxqkahEUAKqjAA9BS05WbuhLY57Vp72715tOs9Tm05bazF2Wt0iZpSXYbT5isAvy84APzdRitPRL9tV8P6fqEkflvd2sc7IP4SyBsfrUer6Bp+uCL+0EnPl5A8i6lg3Keqt5bLvU45Vsqe4pNW8OaVrcNhFqdoJY9Ouo7u1VXZBFLHnYw2kZxk8Hj2pR0Vn/W//A+4b3uUdWnvbvXm06z1ObTltrMXZa3SJmlJdhtPmKwC/LzgA/N1GKoxatqHiBbH7PfzaSW0mHUnFukbM7P/AAHzFbCjac4weeoxW7q+gafrgi/tBJz5eQPIupYNynqreWy71OOVbKnuKbqnh3TdYjhjvIplSAbUFtcyW+V7o3lsu5DgZRsqcdKVna39df8AgfcPS/8AXl/wfvMSLVtQ8QLY/Z7+bSS2kw6k4t0jZnZ/4D5ithRtOcYPPUYoi1bUPEC2P2e/m0ktpMOpOLdI2Z2f+A+YrYUbTnGDz1GK29U8O6brEcMd5FMqQDagtrmS3yvdG8tl3IcDKNlTjpRqnh3TdYjhjvIplSAbUFtcyW+V7o3lsu5DgZRsqcdKb1vb+t/819wv6/L/AIP3k2iX7ar4f0/UJI/Le7tY52QfwlkDY/Wr1IiLHGqRqERQAqqMAD0FLTlZu6EtgooopDMW+8S2OjeRBeQapI7RK4NnpN1dLjpy0UbAHjoTn86S88W6dYiAz22sN9ohWZPI0W8mwp6BtkR2N6q2GHcVds9StJRJBHLmS1ZYpl2n5WKK4HTn5XU8etWPtUP9/wDQ1XJJboHoZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/wDoaPtUP9/9DRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/+ho+1Q/3/ANDRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/wDoaPtUP9/9DRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/+ho+1Q/3/ANDRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/wDoaPtUP9/9DRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/+ho+1Q/3/ANDRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/wDoaPtUP9/9DRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/+ho+1Q/3/ANDRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/wDoaPtUP9/9DRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/+ho+1Q/3/ANDRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/wDoaPtUP9/9DRyy7AZV54t06xEBnttYb7RCsyeRot5NhT0DbIjsb1VsMO4ovPFunWIgM9trDfaIVmTyNFvJsKegbZEdjeqthh3Fav2qH+/+ho+1Q/3/ANDRyy7ALbXCXdrFcRCRUlQOoliaNwCM8qwDKfYgEd6lqH7VD/f/AENH2qH+/wDoaOV9gJqKh+1Q/wB/9DRRyy7Acxo//IX1/wD6/ov/AEjt61qKK9GruvSP/pKHU+L7vyCiiisiAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//2Q==)Algoritmo usado: Newton Raphson

Tabla de resultados:

Comparación:

En comparación con el algoritmo de Newton Raphson El algoritmo anterior presenta una convergencia muy similar, su número de ciclos, se podría concluir que dada la complejidad cuadrática del algoritmo de Newton Raphson el algoritmo anterior ha de presentar un comportamiento similar.

Sin embargo, el número de operaciones que ejecuta la primera función es mucho mayor a Newton Raphson, entre iteración e iteración la primera función usa 4 operaciones aritméticas y 3 sustituciones a la función, mientras Newton Raphson se apoya en la derivada de la función.