BÀI TẬP

# HỌC PHẦN: TRÍ TUỆ NHÂN TẠO

**Họ Tên: Hà Huy Sơn**

**MSSV: 18574802010055**

**Bài 1.** Cho đồ thị như sau, trong đó giá trị hàm đánh giá các đỉnh đến đỉnh **g** được ghi trên các đỉnh và giá để di chuyển giữa 2 đỉnh được ghi trên các cạnh.

10

a

7

5 4

12 5

6 s b

11

5 6

5

c 6

13

5

f

9 5 16

4

e 4 0

10 k g

5 6

4 4

d 16

7 5 h

6

1. Sử dụng thuật toán BFS mô tả các bước lặp, vẽ cây tìm kiếm, chỉ ra đường đi từ đỉnh đến **s** đến đỉnh

**g** và đưa ra các nhận xét về nghiệm tìm được.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lặp | Node | Explored set | Frontier | Parent |
| 0 | s | {} | s | P(s)=s |
| 1 | s | s | a,b,c | P(a)=s,P(b)=s,p(c)=s |
| 2 | a | s,a | b,c,e | P(e)=a |
| 3 | b | s,a,b | c,e,d | P(d)=b |
| 4 | c | s,a,b,c | e,d |  |
| 5 | e | s,a,b,c,e | d,f,k | P(f)=e,P(k)=e |
| 6 | d | s,a,b,c,e,d | f,k,h | P(h)=d |
| 7 | f | s,a,b,c,e,d,f | k,h,g | P(g)=f |
| 8 | k | s,a,b,c,e,d,f,k | h,g |  |
| 9 | h | s,a,b,c,e,d,f,k,h | g |  |
| 10 | g | 🡨Trả về nghiệm |  |  |

P(g)=f,P(f)=e,P(e)=a,P(a)=s,P(s)=s 🡪s-a-e-f-g

Nghiệm tối ưu

Vẽ cây tìm kiếm:

1. Sử dụng thuật toán DFS mô tả các bước lặp, vẽ cây tìm kiếm, chỉ ra đường đi từ đỉnh đến **s** đến đỉnh

**g** và đưa ra các nhận xét về nghiệm tìm được.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lặp | Node | Explored set | Frontier | Parent |
| 0 | s | {} | s(12) | P(s)=s |
| 1 | s | s | (a,15),(b,17),(c,18) | P(a)=P(b)=P(c)=s |
| 2 | a | s,a | (b,17),(c,18),(e,21) | P(e)=a |
| 3 | e | s,a,e | (b,17),(c,18),(f,22),(k,22),(d,24) | P(f)=P(k)=P(d)=e |
| 4 | f | s,a,e,f | (b,17),(c,18),(k,22),(d,24),(g,33) | P(g)=f |
| 5 | g | 🡨 trả về nghiệm |  |  |

P(g)=f,P(f)=e,P(e)=a,P(a)=s,P(s)=s 🡪 s-a-e-f-g:33

Không phải là nghiệm tối ưu

- Vẽ cây tìm kiếm

Diagram

Description automatically generated

1. Sử dụng thuật toán UCS mô tả các bước lặp, vẽ cây tìm kiếm, chỉ ra đường đi từ đỉnh đến **s** đến đỉnh

**g** và đưa ra các nhận xét về nghiệm tìm được.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lặp | Node | Explored set | Frontier | Parent |
| 0 | s | {} | (s,0) | P(s)=s |
| 1 | s | s | (a,5),(b,6),(c,5) | P(a)= P(b)= P(c)=s |
| 2 | a | s,a | (b,6),(c,5),(e,12) | P(e)=a |
| 3 | c | s,a,c | (b,6),(e,12),(d,11) | P(d)=c |
| 4 | b | s,a,c,b | (e,11)(d,11) | P(e)=b |
| 5 | e | s,a,c,b,e | (d,11),(f,16),(k,15) | P(f)=e,P(k)=e |
| 6 | d | s,a,c,b,e,d | (f,16),(k,15),(h,16) | P(h)=d |
| 7 | k | s,a,c,b,e,d,k | (f,16),(h,16),(g,25) | P(g)=k |
| 8 | f | s,a,c,b,e,d,k,f | (h,16),(g,25) |  |
| 9 | h | s,a,c,b,e,d,k,f,h | (g,25) |  |
| 10 | g | 🡨Trả về nghiệm |  |  |

P(g)=k, P(k)=e, P(e)=b, P(b)=s, P(s) = s 🡪 s-b-e-k-g:25

Nghiệm tối ưu vì tìm kiếm đc đường đi ngắn nhất

- Vẽ cây tìm kiếm

5

6

5

0

12

11

1. Sử dụng thuật toán tham lam (greedy search) mô tả các bước lặp, vẽ cây tìm kiếm, chỉ ra đường đi từ đỉnh **s** đến đỉnh **g** và đưa ra các nhận xét về nghiệm tìm được.

🡪 p(g)=f,p(f)=e,p(e)=a,p(a)=s,p(s)=s 🡪 s-a-e-f-g:33

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lặp | Node | Explored set | Prontier | Parent |
| 0 | s | {} | (s,12) | P(s)=s |
| 1 | s | s | (a,10),(b,11),(c,13) | P(a)= P(b)= P(c)=s |
| 2 | a | s,a | (b,11),(c,13),(e,9) | P(e)=a |
| 3 | e | s,a,e | (b,11), (c,13), (d,7), (f,5), (k,6) | P(f)=P(k)=P(d)=e |
| 4 | f | S,a,e,f | (b,11),(c,13),(d,7),((k,6),(g,0) | P(g)=f |
| 5 | g | 🡨 trả về nghiệm |  |  |

Nghiệm không tối ưu

- Vẽ cây tìm kiếm

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TlARXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA3OjE3IDA5OjE1OjM2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1NAAAkpIAAgAAAAM1NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMTowNzoxNyAwOToxNDozNAAyMDIxOjA3OjE3IDA5OjE0OjM0AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAJ5MAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAADlAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8Ap6p4Z0vVwxubYLKR/rY/lYf4/jXEWPgiN9RnS4uHMEW0rtGC4IzSbDqdNb+F9Ht1+WyjYju+W/nWnDBHAgWKNI19FUAUiibFOoER5/0xMf3D/MVbH3aQhIsb5D7/ANBU56UxIZbj90OO7fzNE3+qf/dNAdB0P+qU+wpl0Mxj/fX/ANCFAuhMOtROf38Z9yP0oGTVEvFy/wDur/WgGPbAHNR2/wBxv99v50ALOMwuPVSKevKA+opoBkw+eI+jf0qXFMCFR/pTe6D9Cf8AGpiDikCI7cYRgezt/PNFyCbeQDrtP8qQLYkU5UH1ooAMcE1hWo/f3Hsyj/x0U2Nblv8AhoxxSKFGM07jGc8UAVWuoRdrhi3yHhFLdx6VaguY5SFXcM9Nwx+H1pCsWIhh5P8Ae/oKW5l8i3kmK5CDJAPamIIci3yFJOTwD7mnPuMLblA47HNAugsX+qT/AHRTbgfus/7Q/mKA6Ec14sBcujFVZUyoySTjt+NOk/1kX+9/Q0AyUGowcXDf7o/maAY6RgsbO3RRk1HanfGzEbcseD2oAmYfIee1EQzDH9BTDqJOOF9mH86kpjI8YuF91P8ASpaQkRxYDSD/AGv6CnsAVPvS6AthsP8AqUz/AHRRQA6QYhf/AHTWLAuJ7n/rqf5Cmx9Sz0FNpFIOnNMkCSQ7HQMp6qaQyNQRdIgHHlnt7imNqUMK7GWWSRWwPlCknOM/59aESaMDeZlxkBsH9BUWrmUaXOIULu67ACcfe4/rQhdCncXUkMETw3MhL7gEwBk7gOvbGelWBqituRo243DIPB2nBP0p9AL8BBhjOeqj+L2ouRmBgCR75oEZVwrrdYEkjgzIcDHZc/0FRprG+42NGRh1Ea7vmOcjn/PQ0dANC2uWmXDIyNgNgn1//VT2LGXPI+X+tAMS53fYphk/cP8AKqg1SK3leNlfnBDYGD93P/oQoAuLeRyPsUucnBJQjBxnH5VPCSIU57f3aA6jJy3lk56YPT3p4ds9ePTFMBrkiVGyO/al83GOQaQDFf8AeP07GpfMJGMj86AQ2Bj5Q5XjjrRQCJpP9Q+DxtPvWPbHL3J9ZmpsfUld0UfMwH1NN8wH7oY/QUh3EKyseFA/3m/wp4hk7uB9FpWHuRNE4vozuYqI23c4I5GOlSCytizs0QZm6liT1/8A1CgklhhijGxVXaCAMnPb3qV4YpE2MiEE+lADY4Yto/dx8k5+XrzStbwshUxxkFSCNtMVh0KKIUwq8IP4aJ0VonG0dOy0BoLsUEnao5/u00xxZXEaDDf3KA0H7IwQSi5Jx92o2RC4yijKn+H6UBYR7dZEUcBQAWG373tUf2O3cuGhjOMdR2/yKBWJPs8QbIXnduyGPXGKIkUqPmbgkf6w+poCw6WMGJvmblT/ABmniMdQW55+/QFhsikMpLvw2Oo9KcIzn7z9fUUBYaFIk++/K57dv/11JtboHb8hQCQ2JWww8xuGPYUUASyINjYyDjqOKxrSMNHKzZJMrd/ehldS0I0H3VA+gpwoGHoM08ntQMrs6faeSvCevvUyuuT34HQUiRyP87dfvf3T6VKH56N1/u00CEif5Bw3U9venbzt+6/T0FAugyJz5KfI5+QelLKzGN/3b/d9RQAuSM/u26juKY5bIxG33h3FAhxLnHyNwfUU3c3mLmNuQR1Ht70DHKzYA2P09RTVZvMf5H+6PT1NAD9x7o/5CmofvAq3DelAmOz0GGx/u02NyIl+U/d/u0BcJGG08HqD933qQMueh6/3TQFxpZRIhx2I+6f89qXeoJz6ehoC42NwHk5HJB/T/wCtRQBPIw8t9wI6dR/WsWykAticMSXY4A9zQUWN8h6R4/3j/hRiQ91H0GaAFEOfvOzfjj+VP8iLg7QfrzQNIZgJc4Xj5Ow96nJ5PU9KQkEWS5OD9719qnxz07+tNDGRr8o4HU9/c07qQOOnrQIjhI8pBx9wU6X/AFcmcfdoACeO3akcjC9PvD+dAhwA79jWdFLJGCXIaT7QyhCc4HPH5c0AaQAODx6UgA3jpyhoAkIHPSmAAO/TqD+lADiB6jr60yPgdu460AK4BjPTlfWl/h/LvQAjfeX/AHvWn/n6daAIixVs8jIooAsTf6l/qKxdPGLGPHqf50Mot9qRjgdaAIxLGON4H408TqcbQzfRTQK5H87XR+Rh8ncgd6nKMf4QOn8VJAmEYIZsKn3/AF9qnAf/AGOtMNRsQfaOY/vN/D7mlIk4+dOnZf8A69AtRtvGywofM/gH8NLIp2NulblfSgB20nPzv09B/hTZF/234Ydh6j2oApkyXJaRriSG2U/LtwGf3z6VWjtdty08d1cMnmchgAynbz1H0NAGqkRQAedK3J5OD/SlVG3r+8k+6ew9vagLEuxiD+8k6eg/wpoRt7De/QHoP8KBWHbG5/eP+Q/wpio3P7xuGP8ACKADy3Ix5hxz/DSRoxiU7xyv9ygAdXCk5Xgg/c9/rT9req9f7tAyGaFpNuNvGe1FMVmTXBdYGOQ3P0NY9iJWsoirKqkZ5GTSZWpa8o45lcn2wKaYIyfmBb/eOaBkiKqjAUAe1SgigCI4+1N0+4P51LnrwKBIcn8Rz/EO1TfU9/SgBkedg5P3m/maUZxnnvxQIZBnyU6/cpSpMbZJI2+tADsYQ9Rx61V1EMdMuthO/wAs7cHnNABKI2tFQYIYqEAbHuKbA0nmmKYq+xgd4Pr2PvQFyxbFTAnPA4B3dqkBG5eR370BckDLxz2/vUgxvbn+Ed/rQIecDv8ArUSEb5eejjv7CgdyTjI57+tNiI2YyOCR196AB8NGRnqpHWhGJ5z79aYrjsHJwf1ooC4y9O21b8ev0NZllgWEP+4KTKRM0iKOWUfU1EbhCflJb/dGaBscsjHpE344FP8A35bOyMD3Y/4UhDQr/am3Mv8Aqx0X3NTFCc/OfypghVUgNh2+8Ow9KkKn+8/X1oCwxEG0cv8AeP8AEfU05Ykz/F+Ln/GgQRxp5CkoD8vrVSC7S78zZahY0LIWcjORwePrQFiw8sMajciFmHyqByaje28webPsG35hGvQfX1NAEMtqkOFkiMkUbb42j4ZOox78E08Yu7NVgTyYH2kOeGxx0H+NAMlEjW6bZo1dVOBJEnb3Xt+FSxvDMUaNo2Usen0oAmWNcrwn5UhVPNUAJyh7fT/GgTQ4ononT0pgRPMfhOQD0+tMdh21OeF6+lEapluF4b+7QA7YnGQvU/w02NUaMDavTH3aBD9sefup0/u0UDsQagmLNyCR8rHrkdDWdbQJ9lhyCTsGck46UhomCoBwij8KGODQMetSLyetAEXP2p+v+rH8zT2+9gE+/NAhyDl+D9719qk/AdfWgZEhCgElR87dT7mneZFnJkTI96CRsUqeUg3qfl7VRiiWKeZrZt7SD5hswqdznHU80DLcMKoocl2kZfmYqc//AKqmmcfZ5BhvuH+A+lAitLcSTWN2QpG1XVcAknGRzxx0qWNswIwDBcKR8h6cUAWCwyeG6/3aglt45JFbDpJu++gw3Q0A3oPElzCR8rTpk5wm1h/Q/pTorqKWcBS+5QVZSpBXp1FMLla0vZppdtwhQsG2gJwQDjrn6Vb3/vCQG+7/AHfrQFx5bk4DflSKx3P8r/eHb6UBcfuPZX6+lMhJC42vwxHT3oEDFsDCv+VFAXIdSdTYS4IyI26H2qlFKghQA7iFHQZpFIUuT0jkP4Y/nTWMzH/Vhfq1K4yRFlP8aD6LUggcdZ359AP8KAsRrGPtTgl2/dj+L3NTeUmTwefVqEJCERIsjsECqckk+1Y2mxrKs1ycGUtlB6EucD9APzpgjXEyp+7ijDyBjwBwOT1PakN1NHgyRKEGdzIc7aEBDb3BusLHKVix98Dlvp7e9X1VI4VVAQNvYUALFLuAHzfc64oky0MnX7hoEV7aw8ie5lEjMs53FcD5fXnvzS28qppUTszHaig/yoAsieMzPCG/eqAxXPQHv+lK5PythvvDvQBMM+jdfWoJ7dJWjLKwcMQHVsEcHvTGV1R7Jtzw+YhyDLGvzD6gf0/KrETpLteIhlKHBBoAlx3x29aav+tkGP4Qev1oYh2RzwOPekQ4d1wPvZ6+wpASZHQ4/OimBU1NPMsZFOD+7OMj6VXXgAelIaHUw9KChyD2qUtzjtUgViQLqQ8cRr39zUodG/iTr60yQUxurBijDfnGM0zybaFTNHGu9csAqnk8n+ZP50wRXgmItmdZRHErMWmZM7jzk/Spv3F7DtA86InnGCDQMZZIw+URPwzdwO/1q+SwVf3L9D3H+NBNyG3Emxf3Rxtz94f41K28Kw8s8r2agVyOa4+z25kdMAqAPm6msmP7TLpLh4V/dN/qwxVlIORn17GmM0IoLhdUnndAVeJAp3dMFsjp16Vbk3hfuL95T973HtSETfOP4U6/3v8A61MYvuX5V+9/e/8ArUBdj/n4+VOv96qF6kVuRPxDI2QDEfmY+mMc/jQGpBZvqtyWM4jt9v3MqDvHuOoNSzXDfaLUEKgfd5hzwNuePzNMZLYB1WeNiu8MeDk4HOMH0xVtVbzH/wBX2PSkLUf5bknmP8jRTDUq38mLV8hwdnpnuKqB5P8Ann+bUikIfOPQov5n/Cl2MT80rfgAKB2ZKsI6l5Mf72Kd9miPJUt/vEmlYLFcRRrdyAIg+Re3uatDABGR19KLALGMbhk8N/SnE8dzzTsIy7dC+nfZ1wTHMQ8bdOGJx+I/nVm0X7FanzEUEuxVUPXPQD+VALYsWwKxKSMMSxPPcmpNxwBj9aAuNiOIYzj+D19qXqF6cj1oEVWAkvbUOAVWJnUZ/i4GfyJ/OoLCZp9DkMsJjKxlct1Y469OtMZq56j5elJJja33eADQBIT1+71FNfjHK/eHagTH55xkdaz7tv8AiZ27EBvLRyox3/z/ADoBkliXNqk0koZ5fnb0Gew9hRHHHOEZ1V13uVyue/8AhQDJ4IkhOIwRuGM8np061IGPm4DHlfSgCTe2ep6elFAFTUM/Zn4PQd/eqhPFJlIXNN6mgon3qF5I/Ok85MDMij/gQpXEVhLGbt8OCNi9Oe5qz5i7TgSHnr5Z/wAKCbjw/LYWT7393HajL4BEb9fUUwuZiwzSahK8DtGq8OMA5bJPP4fzq5HA4kDMC7g4DM3T6UrgTIsm1QETgn+L/wCtRtl67Yxn/aJ/pTFqMiWRokGYxxUypJ8p3x4x02//AF6A1IntZJ0iImjR0+ZGCdD+dK0F1JFiaeEqFyFSM4P1yaYdCYrIfm8xOV/uf/Xok37X/eKcr/d/+vS1DUkwxB/edv7tNfdj/WH7w/h96Adx+085kbr/AHahuLfzNjeY6yI4KuF5GePT3phqVk02Tzt8ky4JOfLiIPP1JA/Cr2zb5aq7AZI6D0oCw4Ifl+Z/TtTfLxLHl35UjqPagVh7R8D536etFFgsUdTMggIwhyVGQfeq4jlbrLj6LUstXDyW7yufyFC20XcFv95iaLDsTLDHn/Vp/wB81KEUD7oH4UDsisv/AB+Sjn7i9B7mrWcjHI5HahEIjuJmgikkEbyYbJAYDAx15pySbrdZGRk3DJVjyPrTGVbBibfey/NI5ds+54/TAq3zgcAc0CCI8Kcjqafv7kj6UAMt3PloCAOtSbyNuD29KAEiYlU+Y8L6VKGygzxlfSmBGjl4UHONg7e1OziPGT9z0pAKHJGBnkelJMSIZDzwuelAdCTJyeTTXJ+bJPUH9aYhzk478EU1z91ueHHf8P60DZIp5xg9fWo3+/HweG9frQIl6gcfrRQBn6scKgyOZEH6mmKaRaFNNLon3mVfqaB3Gi5h3jEoPsvNTeepHG4/8ANIXMiuGH2uTaH+4vb61Y3/AOxJ1+lCJRWvIGuyqmKUxiQb13gAjHcZ55xTbveYFtljCeadg+foMc/p/OgepNCkmGG2MfOe5/wqbLgAZj6+lAtREZsfeT7x7U8b9oAcdT/DTAbEJPKGJOhPRfel2OSpMrDHotAhYkYov71+nYD/AApSjED97Jx04H+FAWGRRsIYx5sn3fQf4U7YSgxJIcr6igLCpHlVOZDlf71PeEGNhmTlP75/xphYUIpTI38r/fP+NJJGoRjhvu93NAWHNEpzwTxn7xpssa+WfkHBB6+hoCxJ5a8/IvX1prxIoyVT7wosKxMIk/uJ+VFMZlauHzCPNPMyjpz0NMWFe7OfqxqGUkP+zxZ5QH6804RRqchFH0FFh2JFAPIFSgjFMZXUD7ZJnP3F6fVqlY4bODn0zSRIwN9/j+Id/YVXjxPdPPwVX92nP/fX64H4UICeFgAxO37xqQHkYI60wBCcfeH3j2p+T69+woJGwnCD5j99u3uacc+rUxjIxiJcFupqRB82Pm/OgBsfRRhuM96eq4C4B/OgAiH7qPj+H1pwGcfT1oF0Gw58ten3fWkfDIRleV9aA6Cq4aNWLLlk9aVnjMbDfHyp6GgLi+amPvx8j1pJpE8tyHQ4Gfy5oFfQtB48n94lFFwujJ1Tma3HP+v/APZKQbR1IH1pGi2HebGBzIn/AH0KY08X98H6c0BdAlwgXgSH6If8KkExI+WGQ/UAfzNILkSu5u5T5TfcXjI9/epHMhJOzHPdqBIzbhrqeSWKB1gRCC82QecdBmpPsgtLYzJt8yNck7z82OTx70wVy7HvKsN8Yy5/h/8Ar1KBJj/WL17J/wDXoQhFVsA+afvHoopwVv8AnrJ17Af4UCI41wnMkn3zngep9qlCDaGLyYz60BYSKMFV/wBZwxx83uak8rAGN/8A30aLBYYkS7ejZyf4z60ohXAOCfqxosFhYYY/LXKA4JHJ96cYYsLmKPrjkU7BZCRQQ7F/dRdMfdqRY48jEcf5UWCyEhRRDGMJwMdKkGNo5XpjpQAR8ojZHK04/MhXcPmXHSgB0chZA2c5A7UUDMjU4g09uDux5jHBP+zRHbQjkRJn12ikUkibaqjgAfhTKAHCpFoGQr/x9z8Z+VO/1pLhxHE7lRxzyaRKMSMZ02NWRWEt0d+48Hk4z+IFaMsglQWsbIVbEZYd/XH0H8xTGiN2uBqS/M6xecE4xtIK5+uc8fhWqx4ADY57CgQ0HCnDEYY44pwLccnrzxQIapxn7x+Y1Koz/exmjoCGqp4xnAc9/c08jlevXpmgQ0L7fxnvUi4x0HWmhjYSAp4UfO38zTtw45Tg+tAhqsuwDcn3j39zUm9FVf3kdAyOORAf9an3j39zTklXd/rB17Cgm4sUyeUvzHgkcKexpyzLtHMh9P3Z/wAKAuLDKqxKMSccf6s/4UUBczdQIF3bZwBmQ9fwoFxCvWaMfVhSNE0ga6h7OD/ujNMM654WQ/8AADSuK4LOT0ik49hUyyuf+WLfmKB3IPNP2uYeVliFwN31p/lyEl3RC3+9wPpxTJRQkFzatJHDBBJHLNlVZyNpPJ7dO9TWe4TOszItyMZGzgL2289P8mgZK1tNLcBhcKI1kBZSvpggjmrcmI4mkkmCIhyWI4FCENj/AHi7llJBbIIAqQof779fQUWEMSPJO534f1FSiEEctJ1/vU0FiNYk+YEycOf+Wh/xp6wpzwx57uaAEES7TiMH5z1OacsSD/lknX0FIEh0Uajd+7Thz2qXauOFQc+lMEhkYGONvDnt71J8uOSo5oASMqAfmH3zTyQMc9/SgEJAB8wyeHPb15/rUnA4GeD6UAhI2ITgMfmP86KEMx71FN9b5QfckP8A48KlVQOgAqbFLYU9aqXskyGJIAm5yQS3bAzVK19QZJAJPLXzSpfvt6VK0hBCIMufyHuaQFcMlu1zLIcgbSzdz/n0q0jh1LAY5xgjB/WglFdF828kcldsR2qB6kDJ/l+tTT26zoCHCSIco46qf89qACynMpljlwsyON6j6DkexrK8S6pFEstuZVHkIJWQj/WMfuj6dz+FXDcGXNIvFurQMm4qCMNsIDdOma0c/Xr6VL0ARDy/3vvf0FPJ9m60AiJPvvwfv+vsKeq8twevc0AKnRvlH3vWnDJz8o60ISFUEbvu/e/oKUOoBBZAc0ARxTIGkDPGMN6+wp/nxbv9bHjPrQFxBNGwcCRT83b8KkMqkYBbgjopoC4+OQDzPv8A3h/AfQU1phuOPM6/3aVxXHQnLS8ScP6ewoppiuY13LGt/Dll/wBWx4/3hUnnx+p/BTU3NE9A89R2f/vg1S1C4SNY5GkaEhvlZk46HjmmtwbCK9mkhj2W7eY6g5OMD361ch81V4hGT1LPyf0oC7K06ySLcgrgZXOw5YYweOKfbSOlrJITlFbKlwc4wD3/ACpISuSWqvHEwLJuZ9zcdzgmrYL4++nX0/8Ar0xFeSEyuziUJKrja6ryOBx15HtWdqNu2pWdxbSrGt6VwpKcN05B9P5U09RrYs6ZZyW0EkZby1DgBEOQOB3Iq7sPP72Q8+3+FArCqoy/zSH5h3pWQZP3zyP4j/jQFhkca7pPlb7w/iPoPerAiTn5O/rSQWGLGn7z5Bw39BTxGmT8i8YpgkgEaDf8idR2+lKI1GfkQYPpQFkIhG+QfL94H9BU24c8jqKASQ1XwZfm/iHb2FShgQ3zd88CgBrSbfMG49R2puSQfvflQCJo8rI4y3IB/wA/lRQTcw7jH9pxkAf6nt/vGrC1JothQOc1FORjbtDFugNNDYRxhB6k9T61OOgoAgX/AI+Z+AeV6/Sq811BNdJaK653bn44wO2enXFBKLqnl+V+8P6VKDx94daAGofnk+YffHb2FNuLZLlcMxVlOVcDlT6igZnR6r5M0tpOHkukYEiFMgjA+b2+laKSrKpZS3XByMEe1MQ5Ty/XqKce/X86AGp9+Tg9R3qYd+D+dADVHzy/L3Hf2FPIHzcCgSEGMvwvY04unzcoPxoAjDoryHenIB61Ksi85kXP1oARpIxJJmQfdB/nT45UKnEnPfigLoiaVTNLyTwP4T70qyfMf9Yfoh/wpBckaQiQkCQ5A/hoouRdGJcToNSX5s4gX7oz3PpUv2pAM7ZMDr+7P+FBqnoQSXkzkiGKQAdcJk4/EjH60QvcLKfOiZmb7rcDA9OtPoFywXk7Qn8WFPV5SP8AVD/vr/61ILsp3EskYuNqKJHdEXnoSB7UkEMOyeBYYyYiFZ25OcA8cUISuWrdpntw26PLBTyD6CrA84LjzY88fwH/ABoEIiy75Myp94dE9h70l00sVtIyS/PwF+UdTwKBq5R3JYXXkiUiJwzNwC7N8vPTnOanjJN5MN0gBRHwcZBOR/QUATquS/zPwRUmzr8z/wDfVMVhPLG5/v8Ab+M0/wApeeG/FjRYLAIkLyApngHk/WlMMXP7pOnpQkgsIsUe+T91H0Hb61LsXnCIOPSiwWDB3P0+5/jU6ngnIzj0oQWIny8z/MB8g7e5pQ3lBiW6j0oGMU7pmw3VB2+v+NSqRkcnp6UCCeQJsOTyKKCXuYbnOpvznEKD+dLO+AB2A3Y9T2/U0jVLQJJI4nghEg80yAkbuTwc1POGwmzG/Py56ZwaoCvDJcGRo7hYtwAIMZOP1q2vSkwKNwuZ9+BtjnQn8Rj+ZFNt3AtLrDb2knKhv7x4H5f0FSSieKWdbiaJYlaNCoBBAxwPetAZHcCmAik+ZJ8w6iob4gQeYW4R1ZsegIzTBFS9tI7uaOczbFgO8OvuMZBqSy8xkmnmYksflbZjKjocdu9ADrF5pYmkmYHfhlCjop6A+pq52br0oAByz8HoO/1p5HXg9PWgCP8A5bSfL/CO/wBakGMn5R09aBCAfvX4H3B/WpM+y9KAQ0PmQ8pgr61KrDIy6Dj1oC4m9PMBMqD5P8KbIyHGJk5HrR0C5ChVJU/eZyh6D6VKsy7l5fp/cP8AhQhXQk/71UwJDjP8BooJbMV5k/tScDLYRFyq57Uly2Yt6o+UIb7vYEH+lI2T0Io5xJeRr5blhKznjtj5f0xVy4nJG0JIu0Fywx8owf8AP4VV9SbkFosqp5jJK0knzMWYVdDTY/1IH1ek9x3ZAoaV7lHiQqxAILew9qr6dYpayTpGoPlyfKGkJ2gqOnH61Ilew64glkuJSsQDnbsmRsbT71qfOM5dP++f/r0wEBbfJ+8TPHb/AOvTjuwR5gP4U0CKa6fAJ5GA7AhcfKDz26VPIGCuN55H92gRS06ymtmdXuGYGNePU8889OMDitLysg/PJ09aBjBGN7jMh+X++fepfJXn/WdO7n/GgViPyUMx+Vj8ndjUot0zxGOlAJDGRFl/1a8p/WpAoO0+WvT0oAciL5q/In3T2+lWI0HynC9PSgAVR5qcqOD2+lSfKAvzDpQIrvIBJH8w7im7uVO49fSgZbiBMfVvyooEzmmOdTuyD0Kj/wAdFWAw2+9I1RD9m2OpifaAcqpGQvrip4lADAksW+8T3p3ESAYpcnPtigRBD81xcYA6r1+lMTdHqU4KjDxow/AkH/2WpQkSW88cwd4yCCe/tx/Q1ZVuW6cGmAhOJH+ZRwKkzwfmFNCRGXImk5H3R/WiTnc2T930oGNX/Wtyfujt9amU53AlulADf+WrD5uVqUEf7XSgCJWzP9xsFT3qVjgDCkcetAEW397Gdv8ACep+lT4OF+UdKAGg7GRmCgbW/pVqJcMCcYxQIUsqyRksg696ie5jX/lrH1PegCt56MUJlT757/WniVCeJBwewoFcvJOuwfMfwU0UWE2jlTMv2+7J3H97jhSf4RUwuAeiScf7BqbmtxfOOSfLkI/3aEnbe2IJT+X+NMVyVZpD/wAusv5r/jSiSUnH2dvxYf40XAji3/aJ/wB2P4ere1JcBzdRAqo3K6ZDeoB9PakhIzrJ2tL1rJrcb9uA4YYCjOPfnmtlTJhjtSmDY/59752dB/WpD5mD8ydPShCI/nMz5dPuD+H6+9OZXII80Yx2Wmg1GCJvOb983KdgP8KcqNuI86Tp6D/CgLDlT97zJJytL5Y/vSdP7xosAiIvmJw/3T/EfapREPlJDHj+8aAsNMK+ZH8p6H+KpPKQhcpn6mgLB5MZkhzEvUjn6GpxbICG8qPJPpQBHKGiZcrH8z4BA9jTUOewHNCCyBxgryv3xUuMZ+YdfSgCaPdg/ODz6UUCsjml/wCPu6Oc5lP8hU46UjXoOOQhbGcDNRrNH+6OcGUZUevGaAJ43WRQyMGU9CKkUUCIFH+lz8fwr3+tUby4n82GaCASRoxOOSz/ACkcD096CUW4DHJLKTFskIDFXHPSrWwANwOlACj/AFj9Og/rUhPXp0poER5/etyBlf8AGn7sn7w6UAIP9d97+D+tSccfN29KAI84nXlvuHt9KeMcct09KAGL/rE4bof6VYX7q8NQAw/ejOD1Pf2p/GF4PX1oAVRueM46P6+xq5gYBKjGaBFW7IPl4UffpgIz/D1oDqJM4AHK8Op6+4p5mGCPMT86AuTpMoz+9T86KYro5RbhBc3GSxzK3IUnv7VZW5jx92X/AL9N/hUGl9BZbxIoSwSQ9gDG3P6VVsdSj+ywq0bhm4XAznOfy6GqWqE2TWlz+4QCJ8gdOP8AGrBvChw9tPj1C5H6GjqLm0M83jyNdhotrGMYKvkYBNWLstAVf5oY2O1nBHy8HaD7ZpCTI7K5e4ggnZAZGABOcZ+8D/L9KGhe8muLj5gY32JiQgKAOeO/OaAL0MkjfN5a5aME/N/9arGZOfkj6f3v/rUIBpMplP8Aqx8vuadib/npGOP7p/xphqN/eeav71PuH+H6e9SLv+X9729BRqGomD5yfvT909h7U7B4zI/T0H+FGoDAMSp879/89KnCnj55O9AWEZBuTLSH5v731pDGvrJ1/vn/ABosFiVYVEaEbyd3Pzn/ABqYomMFM89zmgLFWeKIDPlLkOvb3FPEKDpCmc+lABcRqsTnYowM8U/aPmwqjigLEq57baKAOaj/ANfN3/et/Ori9qRaGy7y6Mi7tpOQTj8aqx2U0KpiRCydPl4PLf0ammkDQWtk0DIxcFgzbjjqD0H8q0l4FFxFPyEe5uEYMQ8ahjnrndUM0m2DyLt5I5FIxLtysmOnt+HrQShbKDErELII1G4eZwWYk5OO3f8AOpWgnV544o18qU7txblc9eP89aBltFAdhtH3R/Wpcf7I6UAIQTJ91fu0oyMdOlAIjfd5seGGcH+lSg/Oo3gcUABYCaL5xzkUGT7uW6nHAoAjD5mQZPDEdPY1Pk5Ay3BPagBrscrgN96nHP8AtcGgRMpzGPvcOO/0pX5YgButAyGdDtb5ehByTTzlM4WgQk4LRONgBK0RgnnaOnSgCTcdo+UDiigDmIbmLzJC0q8ux6+5q4txCRw+foKRV0SCdMdW/BTTTOmRw/4If8KAuhROuPuyf98H/Cnicf3JP++DQhOSI1fN3Kdr/wCrXoPdqnLjJ+STp6UCQwN+9f5JPuD+vvUm7r+6fp6j/GmguNDHzT+5b7vqP8ak3PniHt3YUguC+Z5i/uk5Xu3/ANanATHb+7jHH94/4U7hdjQknmIcRjg+tPxJ8p3Rj/gP/wBegNRG3h4v3iD5j29j70xyxKgyr17D/wCvSDURSfNjxKv3/wC77GrBDZ/1uOf7ophZjXVvlPnP98fwj/CnmLOQZZDz6D/CgViUptiP7yX7w9vT2p/krhiTKf8AgRoHYhnjG1/9b93u5/xp/kI2eHPH94/40WFbUa0SA4KHp60sUSFVOzqvNFgsrj/KTaP3YoosFkf/2QD/7QDEUGhvdG9zaG9wIDMuMAA4QklNBAQAAAAAAIwcAVoAAxslRxwCKABiRkJNRDAxMDAwYTgzMDEwMDAwOTcxYTAwMDA1YTNmMDAwMGVhM2YwMDAwM2E0MDAwMDAwYzU2MDAwMGI4OWIwMDAwZGJhMzAwMDAzZmFhMDAwMDIzYWQwMDAwNzEyYzAxMDAcAjcACDIwMjEwNzE3HAI8AAswOTE0MzQrMDAwMDhCSU0EJQAAAAAAEAiTqXA7ynDaq306CLfX0xX/4THoaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLwA8P3hwYWNrZXQgYmVnaW49J++7vycgaWQ9J1c1TTBNcENlaGlIenJlU3pOVGN6a2M5ZCc/Pg0KPHg6eG1wbWV0YSB4bWxuczp4PSJhZG9iZTpuczptZXRhLyI+PHJkZjpSREYgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdG9yVG9vbD5XaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0PC94bXA6Q3JlYXRvclRvb2w+PHhtcDpDcmVhdGVEYXRlPjIwMjEtMDctMTdUMDk6MTQ6MzQuNTM4PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwADAgIDAgIDAwMDBAMDBAUIBQUEBAUKBwcGCAwKDAwLCgsLDQ4SEA0OEQ4LCxAWEBETFBUVFQwPFxgWFBgSFBUU/9sAQwEDBAQFBAUJBQUJFA0LDRQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQU/8AAEQgCtQJsAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8Ap+MPhv4b8eW7xa3o8F2/3En/AOW6f7j185fEL9jO8gke78H3/wBvh/6Bt39//gD19aRpRsoA/MHxN4P1jwdqD2WsabPptyv/ACzuP/ZKx9lfpx8QvD2l+KvCd7aaxpsGpQrGzp5n30f/AGHr4k+L3wTj8D+MNKstPmkn0rVJI1i8z78TN99HejmJPIoEaSTYiSSO3/LOOuz0P4P+LvEmx7TRJ44W/wCWkn7pK+sfA/wc8N+EY0a301JJvl/fyfvXrv44Vj+RKw5jXkgfKmh/sl+ILrY97qVrYJ/HHHXbaV+yRoNr+9vdVur91++kf3K9+jp8ifu6j3zTlPOtD+C3g3w/Jvi0eCSb/npcfvXrtrHTbWxjSK3to40X/nnT/wC9U0f+rNaGY6pOaZGlSfxUdQD+KnR03+KnR0dQJtlFNp2yjqAf6yuY8aOv2jRE3+X/AKctdP8A6uOuV8afvNQ0L5P+X5f/AECokc1b4Ds438ypkTzKpwf6z79XI3qzoWxNIlQ7KmfrTaOpkYd8i/8ACYaY3/TvJXQwRtXPXW2Txppn/XrLXSR0dTOI/wCan/6yiP8Adx0/YKOpoQyPWDs/4rS3/wCvGTZ/33W9JWD/AMzxbp/05yf+h0pCkdDHD+8p+wUf6ySn8U+oxn+rqF0WSppKhk/d7KOoGDCnl+MLj/rzj/8AQ66HZXPR/wDI8S/J/wAuK/8AoddHR1M4kv8AFR/FSbPLpf4qOpoQSbY9lc9o/wC78Uax8/8Ayxgeuhn/AIKwdNTy/Fmqv/0xg/8AalHUiX2Tod4p++mfNJRHR1LJo3qGR1k/jqT+KoJHo6gY/hX93JrCf9Pz/wDoFb/8VYHhn/kIa0n928/9CSOt/wDipRCl8IfxU6SjYab/ABVoWQSI3lv/ALS1j+B9v/CL2n+z5if+P1tyfx1ieB3/AOJGiOkfy3E6f98vUdTOXxHQybab/FR/FTt5o6jIKwvGKf8AFN6r/wBcWrod6xx1ieI/3nh/U0T+K3k/9AqJBL4DSsX8y3iff96NatfxVn6G+/S7J/8ApjH/AOgVf/1lWEA30ySn7KJP3dHUDm9c2x6poUv/AE9Mn/fSV0OwVz3ib/mFS/8APK+jrpf4quAQD+Kk/wCAUeX/AH6NlWWMkrB03dH4s1BP+etvE/8A3y8ldDcVz0f7vxh/11s//QXoMZHRfxUklL/FTtnl0Gw3+KoJE/gq7VWSgDB8Hfu9D8rZ/qppU/8AH66GSsHwr+7j1CJv4b6SuiqIEUvhGfxUkkn8FL/FSbKCzE8XRt/wj926fw7X/wC+Xrbgf92j/wCzWP4jT/iR6gn/AEzketLTf3lnbv8A3o1/9AqOph9ssx/7lP30JR8n9yjqaDJN3l1g3z+X4s0p/wDnrDLFW9JWDrDrHrGiS7/k86SLy/8AeSjqKRvbPMp60yN/M/gqSjqMq7FjojqT+KkjT95WxZj+Lt0fh+7f/ZX/ANDrx/4saVb6r4s0q0uIfM8qSKVP9hlr2Pxd+70OX/rpGn/j9eUePH8/4iafCn8MkdZyI+2dnGlP2URw+XGlTR1PU6h8aUySn/6uSiSgCtGi1P8AxVHH/HsqbYaOodSGP/WVPUe1vMp8n7ujqRyjP9ZJVn/V1DGlTbKOpfKEe3+Oim06jqAVyvi5G/tTw4if8/n/ALJXW7PMjrkvFSLJ4g8Nf9fTf+gVEjlq/CdhH+7qaN6hjhp8CfvNlWal2o5EWSpKTZR1GYMif8VhZJ/H9lkf/wAfrpPLrBkbzPGlr/15yf8AoddJ/wAAo6mMBkaN5lS1L/FUcaUdQIZKwZP+R7h/68X/APQ66F6xI/8AkdIn/wCnGT/0OlIUjov4qP4qTy2o2U+ow2VDIlWdn7xKhkejqBzcbt/wnDp/04r/AOh10ka+XWJHu/4Tj/Y+w/8As9b2yjqZxF/io/ip2xqb/FR1NCKsKx/5HDUP+vWL/wBDeuhkSsGD9340vU/6c43/APH5KOpEjf8A4qiqX+Kj+KrNg/iqD/gFTSUyR/u7KUgOe8PzN/bniBP+niN/++krpEfzK5vQ93/CSa6mz+KJ/wDxyt7fURIpE2+l/iqKpN9aFjHfy6xPBv8AyD7tNn3bydP/AB+tj/WSVieEdsceqp/dvpKjqYy+I6SN/MokokemSbaOpZC9ZupQ+Zp90j/885P/AECtKeq06eZbyo38StR1CXwFbwrI0nhvTH/6d4//AECtWTbWD4Lm/wCKX0/5Pux1vPuko6hH4CT+Ko5E8yOiNKf/AMs/kerLOe8YbY9HSX+CK6gl/wC+XroY/wDV/O9c940Rv+Ebvdv8O1/++XroYP8AVrRAxh8YyeZYNm/zPmZVT/gVTR/u6fIlNqzYSRFrnrr934s0x/8AnrbypXQyJ9+ue1VPL8QaI396SRP++koIkdDHS06NG8v79NoLCoJKtVVkSgDE8P8A7vUNYT/p4V/++kroqwNK/d+JNVi/vRxS/wDjldFUQMKfwjKdsptPoNylqUKyafdps+9HJ/6BVbwy/meH9Pf/AKYrV+eGs3wc7f8ACP2ib/M8pWi/75eo6mH2zWp2+n/N5dEifu6s3If9Z99KwfEcax/2ZL/zyvI//Hq6Hya57xijR6P5v8EU0b/+P1nIzkb0dPWiNKcq4p9RkUaU/ZTI6m+WtizB8VfvNPiT+9NH/wCh15R4q/efFCyT/ppXrXib95Hp8X966jryLVd118WLdEfzNrSP/wB8pUEQ+M7yNKk/ipI38yOjZUdTqJ6jnp8e2iT95H9yjqHUhjqSkj3UbDR1DqP2UtR7zS0dQ6jt/wC8p9QxvRI7R0dQLMf7ynybahgk8yNKx/FWvahpciRaZo8+puys/mR/cTbQHU25HWuJ8Y69puleIPDj3d5BGi3DO/mf7lU7Gz1jxdG8up6rJpsK/fsbT76f8DqHUvBOi6b4g8PolnHO8s0m+S7/AHrvtSokZ1PhOhf4r+G4Pk+2SSf9NI4nlSr+j+M7HxHHK+j3MF3cxL/qJP3T76vxwxwR+VFDHHD/AM846zb7wTZ6xJFdxJ9g1K3bfFfQffT/AH/9irNDS8M+JF1yS4tLi2ksNStW/wBItZPvpu+5s/2GrofLrm9Y8PSXXlanZPHBrdquxJP4Jk/jhf8A2Grb0vUlvtPil2SRu3345Pvo6/fo6mZQkT/itLf5Pk+xyf8AtOugrn5P+Rwt/wDrzkf/AMfre31nEiI+NKfHDTPMX+/R5y/3/krTqWcT8UNS1TR7fR5bS5jsLOW+jt7q6/jRG+5Wla2clr40iSWaSf8A0Fv3kn33+es34zPH/wAKz1X/ALZ7P9/zo62IJv8AitLTe/8AzDW/9DjpSMZHS1zt0+uarePb2iR2FnE2x7qT77/7iVvecvzvvojuY59/kzRybafU1M238MQxyebcXN1fzf8APS4l/wDZK0pP9XT95pkky0dTIwY/+R0P/Xi3/odb/wDFWBvWPxonz/8ALi3/AKHW350cf8cdHUziT0kiUxJo/M3746f9pj/6Z0dTQJE+5WJB+78cS/7Viv8A469bck0f9+ue3rH44d98e/7D8n/fdHUiRW+JmsXGh+F/NtHkjuZbiK3SSP8Ag3vVnZJ4O8P6hdXuqz6lDZwtK8kn3/lrE+M03/FB3cqf8sri2l/75mjrV8f3kcfgfXZX8vZ/Z8v/AKBR1Nin8OfiFH8QtD+2pZz2DrJseC4/8c2f7DV1U/7yuS+GSQ2PgfQtn7uZrGBH/wCApXT+cvyfPVSAx9K/d+KNYT+9HA9bcj1g2LrH4s1BN/3rWJ//AB+StueZY/46iJECaN6f81MjdfLSnyTVoWMk/dyVieHHWO81uL+7eN/6BHW3O/3K57R90eua7En8U0cv/fSVHUxkdJI/3Eo/1dVvtPl1NHNHJHvSjqWTbFeuG1XxDqn/AAmEtpaJB/ZthHE11JJ993d/4P8AdSu23/vK868M7dV1zx3K7/PLeLbpH/uQ0dQOq8Bwt/wi9ujfwySJ/wB8vXQx1zHgNv8AiTv/ALNxLv8A++66X+KlEKXwj6T5fMpm9Y/46f8ALWhZj+KofM8P6mn/AExkrV03bJp9u/8Aejj/APQKoawnmaXdxf3o5E/8cp/hyZpND0+X+9bx/wDoFZxMPtmlsp8dFH+rrc3GSf6s1z3iZ/LuNEl/u3ip/wB9JJXQyPXPeLn8vT7eVf8AlldRP/4/QRV+E36dspkdP31BYSJTJEWpKjk/d0AYkH7vxZKn/PWzj/8AHXrfrnZ38vxhab/+WtrIn/fLx1vSOscdZxIgP2f7FP2VD81PjetCxk/+/WP4V/d6fLF/zyupU/8AH62JKwfD7tHcarF/dvG/8eSo6mMviOk30b6pyM0clWUqzYfWJ4uXzPD+ofJ91d//AHzW3WbrCefpeoRf3oZP/QKzkZyLkH/HvE/96OpqoaHcrPo9pL/ehj/9Aq/T6jCNP3dPop9bFnPeI08y80pP+njf/wB8pXlE+1/i5L/uyV61rm6TVNKTf8m6R/8AxyvJY90nxUvZUT7qtUEQO5jSpKTYakqOpsJsofrT/wDV0x+tHUcRtJHRHR/q6OpfUJKb/FTpKWjqaEccP32ok/26PufcqtPukk+esgL8br5dMkmqGOoZ3aT/AFVMAuoVk/ep+7mVf9Z/fSub8QTeX4o8OP8Au/vSP/45XSWsMkkex08x65jxjC3/AAsDwfEvmeS0k++P/gFIwqHVQedfSfJNHGlVvDej61pUdx/aGsJfwtJI6eXF5TojfcrVjhmj2IiRx7VrhtS8Q+KIfiRp+nzJBBokvmRJH/HMip/rqcSpHpEELSR/66SmRvZ/aGt0ufMm2q7xxy/PXlFj4t1zVbPxB4fiv449SW6WK1upPvpE/wDH/wABrH8I6P8A2VZ+CtY86STVZdUksri6/juEbzN++tCD2Z7aOTxgnzybFsW/7731pWumr9old3kkRv8AlnWbJC3/AAlifvpP+PFv/Q62ILbzJP8AXSVkREmj02OP+Cn/AGOH+5TPJ/2pKfHb/wDXStSzx/4/eMNLsdHi8NWXlz69dXEGy1j/AIEV66GDwZdal4otE1vUpN7WLSva2f7pEffH/HXMfFv4XaPqvjDw/cWnmWGvX9wyPfR/3ET5K6fwr4hkuvGCaZrCSWGt29m6Sx/wTfPH88T/ANxqUiDH8XfCvWP+EstJdMhjv/Dflqktj9ueJ9/8bu9Qzv4d0PxZpkvhe8j85dQj03UtN815UdH/ALif31rp/F3iGTw/8QNCiuL/AOwaDdWs/wBokk/jdfubHrzf4F6Jp8+uan5vlx/2beXLrPJ9+781/km/3FSrjID2mTXNBg1C7tJZo45rVfNl8z7iJ/tvVyxm0/UrOK7tHgktpV+SSP7leM+GUXxd8XPFumO8j2FvqEd1LHJ9yZUT5P8Ax+pvACQ6xrHiDwpbzTwWFnq08txHHK/yRM/yIj/7T1EogeneTH/wmEWxI/8Aj1k/9Djrejtrf+5HXmnw5m8zULS3lmkk+ztdWSSSffdEm+Tf/wAAr06S2hj/AIKZEQjht/7kdP8As1v/AHEpkdtb+ZUzww0dQIZIYY/4I64/xH4btfEfiBLSWae0T7L5qSWn7p0dXrs5LaPzErBuoY4PFFvK6eWn2OT95/wOOgUjg/ix4Gkg8D63cJrd1JDFCzeRJEmz5ayvH/h6bSvhnqF3/bd1I8tmv7uTZsd3rufip5P/AAr/AFh4n+eWPyov9tm+RK5L42WdxY+A9KtLSHz7lrq2ieP+/tpRGdh4fsbXQ9H0rT5Zo5LlbePZHJs3/Kn9yue1X4qaPpuuXemRW086WDR/bZ44v3Fvu/vvVbxj4bXR9L0fU3/5Dbapau8/m/c3P86J/sV514u+y2Pwz8W6VN5dprdvqnm3Ucn37tGf5P8AgFaAe5RzWsfij53jje4s43T/AG/np8msaPdax/ZkU0E9+vzvB5vz14/488SL/wAJx8P3sn8ya802SJZI/wCB3RNm/wD3a6fUvAfmfEDw1pWnpPYW1rZzy6hfR/ffd/t/32qOUzienQJb+Xv2eXT5IY4/45K4nwXYLpXizxVpSPPJZ2ckEtvHJK/yK6fPXZwWccnzvQaD4/Lk+5NJJWDax/8AFSaxEjyJujietuSwjjuN6PJH/frNgh8vxBd7HkjdreN//H5KOpEh/wBjm+0b/tMnkt/yzq/HbSRx/JNUPkySSJ89XI4ZI4/9dR1LCSGTzNn2mOuD+HsMkfiDxnFvjkeLVpH/AO+krvNs3/PaOuD8OedY/FDxbab443uPs1wn/Ako6gdJ4VSSD+0IvOjTyryRP9+t7ZdfwPHXzZ4jh1a+/wCE18YRa3dWF5o195Vvptv9z5fL++n+1XYal4h1a+8N+Aru7m/5CV8sTyRy+Vv3JRyhH3Yns2y6k/jjo/0qP/nnXDax8QtS0qzuNTisIJ9Es5liuLqSX53/AL+xP7i1W1zW/EWq6Pquu6VcxwWFgrPbxx/8vez7+/8A2KAO5nhuJLeVNkfzLVPwq95/wj9l5SQbFj2fvP8AZqbR9Sk1TR7K72RxvcQxy+X/ALyVD4ReT+x0REj/AHUkifvP9l6Opn9s2N91/cjko866k/5Yx0RvceY/7mjzpv8AnjVmhC73En34Y6xPFTzSeH7v5Puqr/8AfL10P76T/ljJWP4jhmn0fUIfJ+9DIlZyCXvRL9rNJJbxbIfM3Kr0yS8vPM/49pP+unm1W0qaSTS7R9n3o438z/gFXI5pP44ZKYE0d5J/HDJvp/nSSR/PDJTI5pJJH/cyVNHc+ZH/AKmTfVgc9qszR6xo8vkyfeki/wC+krVnvGjj/wBTJvZqoeIJljk0yV0k/dXkfz/71XJ7xY9m9JNlR1Ij8RN9u8uNP3MlH2/y5E+SSof7VWTeiJJ8tQvft9/ZJsoLLkl+v39klY9jMsfiDWE/ebGVJU/74q/JceZI/wDrNi1mx3Pl+JN+z5JbXZ/3y9HUiRsfbI/L+dJN9TR38dQveR/foj1CP7m+gss/b1qnPcxyRy/7uynx3kflojvT47mNI/v/AMVHUDE8I3K/2XaJ+8+WPZ/3zXRRX8ewfPWH4ZuYY45Ynf8A1U0if+P1uC8t/wC/HR1Ih8JbjeaP5HTzE/56R0+OZZI/kemec38aU+OOOStjYx9YfzPEGnr/AHY5GryLQ38/4kam/wD0zk/9Dr1fVUkj1y3dH8zbDI/7yvH/AAX+/wDHGpy/7Lf+h1BED0minbKKjqbB/wAAqGepqZIlADI6P9XU1Hy/Jvo6mhWR/Mokfy/uVDPf2drI/m3McdZs/iGzkk2RJPP/ANe8T1kLmiX/ALQ0kmyiB5JLjyv46p/bL6T/AI9NEk2f37iVIqfHYeIJJHffY2iN/wA898tA/aGlJC0ce96P3ccfz+XHtqh/wjeoT/Jca9PIn/PO3iSKpo/Bmnyf8fHn3b/9PEj0/fMw/tuxtf8AW3MEbtXH+KvEEP8Awsjwe8U0kiKtzvjji+/8lehQabZwf6q2gj/651578Yrm40nXPCWp2ltJdzWs0n7uP+4yURIkdzb63N5e/wDs26kRvufcrkvHmj+Itc1TTLvSrNIHt45YnkuJfuI6fwV2dref8SO087/XeXHv8v8Av7KsyP5kiIiSbFWkBwHh/wCGN9pvjh/EqJBJus44kjkl+46p89U9S+GOpaPcW+p6In2iaz1L7ammySvs+b7+yvV7WTy7dESGiOaTzH/c/wAVAHMWKa5PrkT3b2tpeNZtvjji+5uetv7NqUcn/ISj+banlxxUzfN/wlH3I/8Ajz+//wADq/J50kifJH96giMSGSw1CON/+JlJ/wB+kp8GlahJH8+qz/N/zziSrkiSeW/+rp8bzeWn+r+7T5S+U4bxN4M1jWNc0LULTVfnsLhvN8zZ/qmT59lTeIPBMfiDxJaJd38/nRW7y288ezz4XV/4HrrY0kk37H/iqh5Mn/CWRJvj/wCPN/8A0OkRKJWuvCs0lnFb3upSXybl/wBfElQ33gOzvriK7lmkkubddiSeUn3FroZ0k8tPnj+9T5IZJI/v/wANahynMaP4GtdKku7u0uZ4Lm/bzbiSOJPnejQ/A1no9xqstpNPA95N5txJ8m93aukghk+zxb5v4aI4ZPMl/ffxUdQ5TzTw58N7rw/44d7jWJ5IZftNxaxx/wADO8e/fXfz6Csex31K++Zv+etQyQyf8JRZJ53/AC7yf+hx1q3ULeWn76T71HUXKQx+G4fL/wCP+6/7+0R+Hrf7Ojvf30n/AG1qz9lkkjf99JTIIZPs6Ik3l0dR8sStBo8fzp9pu5HVv+etcxqugx33ji0spZrr7MtrJK/737+5662NJI5Jfnk+9WVdWf8AxVGnypNJ53kyJ/wCo5QlGJDrHgmx1WO0865utlvNHL5fm/J8tX/+EYs/M3vNdSP/ANNJXqzfQzR2/wDrpPvU+OwbzPOeaSrDlgY+o+BtN8QaX9nu5rrZuWVJI5fnR1+5sqtB8NNDkkSW7hkv7y3+RLq7+/XSWts32dP31MjhbzJf30n3qA5YnGQfCvw3pXizT5bSzkjmWGR0kjlf5Nr10knh6GP50vLqP5l/5a0SJJH4k0/99J/q5P3lX7q2k8tN80n3qDOMTnv+Fe2KaxcanFealHcyqqy+XL9/b9zfWrBoKyW6f6ZdR7l/56Vq+S38c1Mg8yO3T56OppymbHoknz/8TK6j2ttT7lZX9j3Efih9mqzx7rX/AGPuK9b1u7SSS/P/ABVQkSSPxRb/ADx/Nayf+hx0dSJRK11pt9BInlalJ8zbPMkiSrklnqEEbypf+ZtX/lpElTX1tJ8nz/xLVySGT7O+x/4aOoHMaxf3Wj28W/Uo5Lm4ZUt7Tyvnd2rN03wZqkfiB/EEupQfb5YVtbiDyvkRFf5Nlb194Ph1jUNH1WX/AI/7Bt9vJJ/Ajffq/smkjdE8v/WUdSuU4O++HS654k1iWWaPZcRxvcQR74kuE2fxpVPWPhFcX2l6fo8V/wCRbWt19ot4/wC4mz7iV6FGk0fiSVP3fzWce/8A4C8lXJ4ZvMif9396gxjE4/xN4VuNS8Dy+HIoYLSwljWLzI5f4FetKDR76x8JvolvYQR2a2rWqfvfuIyV0M6TfZ3+TzKf500kf3P4aOppynMeEU1rQ/D+n2VxZxzzWsaxeZHL8jov3Km8P6lqEEd3F/Zv3biTfH5qfJuetu1eT7OnyVQ0d2j1DVU2Sf65X/76SjqKUSb+2NQ8zZ/ZUm/b/wA9Up/9sX0ciebpUnzN/wA9UqaN5I7hH2SfdqaS5kj2O6SfeoGU31u8j3u+lTx/98VDdareT2cqf2VP8ysn8H/xdaszt5b/ACSfdpkc3/TGT7tHUXvmDo+pXUnh+yRNNnk2xqn7vZ/DVyPUppN++wu9/wD0zip/hmby9HSLZJ+6kkT/AMfq/HN/pEvySUdSI85T/tvy/wB09hff9+6fJ4mhSPZLDdR/9dInq553+kI+yT7uyie5Xy0/3qDQ5vX9ehn0/wA1En/dSRv/AKp/4Xq/J4hs5NnyT/8Afp6m8QTLJod6iPJ/q22f8Bq5a3kclnE+/wC/HR1M/tmPJ4ntfM+RJ/8Av09P/wCEhtZJE/1+z/rk9atrcr5af36fHcrHJLv/AL1HUv3zK/4SGx8z5/Mj/wC2T1myeIbOPWNPd5v4ZE/j/irp5LlftCf7tU9Ymj8zSpd8fy3Sp/30lHUiQz/hJNNk2p9pj+WiPW9Nkk/4/IP+/taU80Mlu/8Ay0daZ+5kk+5H92jqX75Wj1jTfv8A2yD/AL+0Saxpsn/LzBJ/21qzBDayW6fuYP8Av0lQx2NjJvR7aD73/PNKOpfvmPpWpWMGoanF50H/AB8b/wDvpK3v7X08/wDLzB/39Ssq102x/wCEgvovs0Gxo43SPy61xoumj/lzg6/88ko6kR5iSDW7eSRFl8y0f+5JV/yY5Njp+7/651D+7uo9jpHIn8cclULXRPs/z2lzJaPub93/AAf98VZuU9Y8yPVHdP3m2zkevIvAG2TxRqcv+z/7PXpeq3l5Y3moPdw+Yi2vzz2/8H++leXeB4bi+1zUJbSaO3+X55P96oIgenR/u46pz6pZ2vzzTRx/9dKhk8NtJse4vJ5P+2vyU+18N6fa/OltHv8A+eklRzFkMniezkkRInknf/pnE9Q/2rqE/wDx76bJ/wBdLj91W35Kxx/Inl0bPMo5QMSO21i++/cwWif9M6P+EYWT/j7vJ7v/AKZyS/J/3xW3san+XVh7pQsfD1jY/wCqs4I6vx/7FH/LP7lPT/V0dSgqaOq07+X9ynwP5kab6OpUSaNKP9X9+pP4qj/1dBfUfI6+XXK65MsfjDRHf7nlz/8AoFdI6eZJXPaxCsnjTRPNT7scr1EjCobc80cluj7/AJGZamkuY/L+/UMkMccaIiR7N1TSbfMf5KsoLG5jjj2b6mjm+/8AJJ96mWLr9nTe/wA9TRzRx/x/xUdRlCOaT/hKHfyZP+POr/nSfaN6QyfeqhHcr/wlH+7ZqlX5Jl+0f8tPvVkYxLkk0kkb/JRHNNHGqOn8NPkmXy3+SSmQP/o6b0krXqWMtUm+f5I/vVmyPN/wlEW9I43+yt/6HWrazff+ST71ZsjtH4sifyZP+PNk/wDH6OpEi/dJceWjukf3qmk86ON/9X92nzzSeWn7mT71Pkmk8t/3P8NHUshtUmkt0/1f3aZGk3mS/PHs3VNazSR26fuaI3kkkl2J/FR1Ayp0m/4SS0d3j3/Z5P8A0OOtKdJI40+eP71Zs7yf8JRp/wC5j3+TIlaU/nfZ/uRxpR1IgTSLN/fjqG3hk8tNjx1N/pHz/wCrpkHnfZ0+5R1LIY4ZPMl3v/drNvkk/wCEk099/wA/lyf+gVpRvJ+9/wBXWbfJN/wkGlf6uPd5n/oFHUzkXLpG/v1Zk8zy/wDXVWvraSOPe7x1c8mTy/vx0dRlOOGb7P8AfpkEMkkjv51WYIZpLf78f8VQxpJHcSpvj+6tHUChqXmR65pT74/+Wif+OVpTpJ9nd99ZusJN/amlP+7/ANY+z/vitKR5vs7/AOro6hAmkSby/vx1TsUuPLRHeOrMkk3l/fjqtY+d9/8Ad7NzUdQHxwyR3Evzx1QuvOj8Qae/7uR2jlT/ANF1pfvPtD/6v7tZt950euaU++P/AFkif99JR1FIszpN5e53jq5Ik3l/8s6ZfJN9nd3SOpo3k8v7kdHUYyDzPs6f6v7tQ7JP3v8Aq/8AWU+xeTy0+SmfvI5JU2R/eo6gVt8kfiiJ38vfLayf+OvVy6eSPyfkj+9VOeaSPxBp77PvQyJ/6Lq/fPJJsdIf4qiIQCTzPLf9z/DTN8nlp+5k+7U0jyeW6eTTIHk+zp+5k+7V9QIYPMjj2In8VZtjNJH4g1NPJ+8sb/8AjlbEDtHv+T+KqEczf8JI7+T/AK21X/x16OpEizJM32iLelPnmby0+ST71E6b5In2Sfeon/eW7/JJ8q0dSyaSZpI3+SSmR3P7tPkk2baPOby/uVDBcr5ab0ko6gU/D8yxx3cTpJHtupP/AB561Y7lfMff/drN0q5WHUNVR/4pFf8A76StL7TH9oi/3aOoQHyTR+ZF/wACpl9cxx2/36fPcx/I6P8AxVDdTRyRv88dHUCG+mjns7hN/wB6NkqHw/NG+l2m/wAv5YVT/vlKuRzRyfx1Q8MzR/2WkT+XvikkT/vl6Opn9svwTQ/P88f3qfHNHHcP88f3aIPL8x/njo/c/aE/1fzLR1NAmmjjuIqoeIHj/s+Jv+eU0b/+P1fn8vzEfZH96q3iOGOTR7vZs/1e/wD75o6ikXJPLkjf/V/MtEcMcmx9n8NEEMMlujbI/mjogSOONN6UdRkNq8fmPE6R/KzVN5MfmSpsjqG1hhkkl+SppIY/tD/J95aOoGV5Mf8AwkkXyf623b/x162/Jjk+bZWDfQxx6xp8v8DSSL/30lbsKxlT9cUdTOJakWOSOmQJJ5aNE/8A38qaSFfLd/3kf/XOmWvnR26f8tKs3Ob1i58uTWPNTy/9HVK8u+FcPl6hrDp9xmXZH/cr0vWLlZLfxB5qSJ8qp5cn+5XnvwvTZJqfyf8ALRajqRA7x/4KZ/BT5KNrUGwUSUUSP+7o6gRVLsaSijzKOoD9lGymRvRI6+XR1AfvWpo/3cdUPO8uR9//AJEpkmvWMG/zbyCP/trR1HzGk+6So6wpPGenyf6qaSR/+mcT0+PxDNdSfutKupP+mkn7pKjmDmibf+r/AI65jUkafxxpSb/nW3k/eVpedrEnzpZwRp/00lrEurPUJ/GmmebcpG/kybJI/wCCiRhVl7p1V0ix+Un7z5mqaOFfLd/9mqc+gySbHl1KT7y/6v8Agp8+gxx27/6TdSfL/wA9assuaa8fl/8ALOnwTQx797x/eqnpvh6zjt03pJI+3/lpK9PtdEsfn/0aP71HUv3ytHf2snih3+0x/Laqn/j9XJNY0/zEf7TH8rVTj0qxg8SSoltBs+yq/wDqv9utL7NDHcIiQxxpurOJjHnHya9p8kbf6ZBJ/wBtaIPEmnx26b7mOr8kMPlv8kf3f+eVEHl/Z0/1f3a06lmbB4hsfn/ff8tKzZPElnJ4oi+eTZ9nkR/3b/366GBlj83Z5f8ArKoSPH/wlFu++P8A49ZP/Q6OpEh914htZI02efJ83/PJ6fJ4kt/L+SG6k/7ZPU0833Pn+TdU3nL8+96OpZm2uvR/Z02Wd193/nlRHrH7yXZYXX3v+eVatpNH9nX56rfbI/Ml+f8Aio6kGPda23/CQaf/AKBdb/Lk/wCWVXJ9VuPs/wDx4T1DdTLJ4g0x3f5Nsn/oFaU80fl1kECGPW7h/wDmFXX/AI5UNrf6hJGn/Etk2f8AAK1Y5l8v7klMtZl+zp8kla9QKEdzqEdxK6abJJ/0zklSs3UrzUP7Y0r/AIlskb7pNn71P7ldDHMvmP8AJJ92srVblYNU0d3ST5ZJP/QKOoSiTXVzqElu6PYfw/8APVKI7/VPL2fYI/8Av7VyeZpI3+SSpt7SR/ckjo6hymbBc6p5fyWcezc3/LWoftOpSXEu+zg+6v8Ay1rStXby3+ST7zURv/pD/J/DR1FynN6lNq0l5pTvZx/65kT97/sVqz3OpR27/wChx/d/5Zy0a5M0d5pr7Pu3S/8AoFX7qb76bKOpMYlDztSkjR/sEf3f+etQwPqkkfyWcf3m/wCWtasc3l26fJ/DUNrc+Zv/AHP8VHUsoR3OoR3D/wCgR/d/56pVPUrnUI9Q0p303/ls3/LVP7lasmsW9pqCW8rxxzSx/JHJ99/9yq3iCZo5NKfyZP8Aj8jo6hKJNfX+oSW8qf2b/wCRUoj1K+/6Bsn/AH9Srk7t5bpskp8H+rTekn3aOocpQsdSvvL2f2bJ95v+WqUyS/vP3qfYJ/u/7FX7WZo9/wAkn3qZJN5kjvsf7tHUDHvtSuI9Y0d3sJ9+6RP4P4krSutVuPs//INn/wDHKZrD+XcaU+yT/j4X/wAeStKe58y3dNklHUIxKH9sSSR/8eF1TLXWGjjRHsLr/v1WrHMvlp8kn3aZBcr/AHJPvNR1Azf7b/eSp9juo/m/55VQn1tY/Elp/o1181vJ+78r/brofO8u4f8A1nzLWbfXPl6xpT/vPvSJ/wB9JR1M5D5/EMcce94Z/vL/AMsnok8Q2/lujpPHuX/lpE9XLqbzI3qbzl8t6Ooe+UI9es/LT/Wfd/55PUNrr1n/AH5I/m/260oLmP7Onz0yOaPzJU/2qOoe+YlrrGnx+IL53mjjSWGN/wB5VyfXtP8AMidLmDZ/00okmjj8SRPsj2S2rJ/wNXq5O9v5ifJH/rKOoR5ytPrdjJHvSaOT/trT/wC1bGSN/wB9B93/AJ61cntrXy3+SP8A79UyO2s/LT9zB93/AJ5UdS/fK0eq6ekaf6TBG+3/AJ61T8P39nH/AGgnnQfLdSP/AAfxVctbO1kj/wBTB8rMn+qqha2FnHrmoRPbQf8ALOVP+BJR1I981Y7+1+0P88f3af8AaLWSSJ08v71M/sfT5JE/0OD5v+mVMn0fTY9j/Y4Pvf8APKjqX75Zuvsv/TOmX0NvPZ3ESeXI7RtUMmiab9nf/Ro/u0R6Hp8kafuY/u/7dHUnqGj+TJpdo7+X/q1qz5MPlv8AJ/FWJ4f0Gxk0/Y8Mm+KSSL/Wv/C9aUfh6zk81Nkkf/bV6Oook1rDH9of5/4aJ4Y/tCVW/wCEet/tCJvnj+X/AJZyvTJtBjj2Ok118jf89aOoe+Q65DHH9nl/efuriP8A8eetXyFIH+s6Vj65oK/2PdP9put8S+b/AK3+7WjBocdxDHJ9puvmH/PSjqM3J4f3b7H8uiDzI40+SqE1nqFrG/lXMc6f887j7/8A33RHrH2GNPtdnPAn/PSP96n/AH3VcxtzGD4jeOTS/EDv/e/9krgPhen+j6g3/TSuz8TTRz+H9blimjk3Sf6yOuG+HOqx2Ol3SS+Z5zTf8s/v1PUg7/5aP+WlY8mq6hP/AMemmybP+elx+6pkcOsXW/zbm0gT/nnHFR1LNuSoZLmOP77xxp/00lrN/sGST/j41K6k3f8APP7lP/4RXT4/n+zeY/8Az0klejqX74+68Q2MPyfafM+b/lnTP7bkn/497CeSrkFnDBv8qGOP/rnFU1HUgyvO1ieP5IYIN3/PTfvo/se+n/4+NVk2f9O+ytiNP9inx7f4Ho6gYkfg/T5PnuPPu3/6eJXrStdE02D/AFVhBH/2yq5H2p8aUdS4xBIY4/kSGOP/AK5xUlWKj3/vKDTqMkrm77cnjzStnl/8estdPJXMalN5fjzT32SSf6LJ/q6iRy1Tek86TZ/q/vVckhkkjZ3mqn50kmx0T7zVZneTy3+T+GrNR8ELRxp88n3ahj8vy3TfJ96mW6TSbG3xxpTI4ZPnff8AxUdRkMEMcnih/wDWf8e6v/4/Wr5Kxyfc/irKtYW/4SyX99/y5r/6HWr5LfaE+eT5mrOJES5JDH5b/JRHDD5afJ/DRJbeXG/zyUQQ+ZGnzyfdrTqWEEMce9Nkf3qzZoY/+Eot02R/8e8jv/33V+0s4/3qb5P9ZVOSzj/4Si0/1n/HvJ/6HR1IkXJIVjjT5I/vVNP5fl/cpk9nH/00p8lnHHG77KOpQQuv2dP92qdq6yXErv5f3l2VN9mj+zp8kdEFtH5ku9E/ho6kmbqU0cfiDTH3p92T95/wCrk9zH5f36rarDHHrmlbEj/5af8AoFTTvHJG/wAkdHUC/wCdH5fyvUMFzDHb/O9Pgmj8vZ+730+0SPy/+BNR1ArQ38MlxLsf+Gs3xHNHJeaU7/w3H/slaXkxx3Dun92qHiOZftmj/PH/AMfX/oSUdTORpT3Mf2f/AJafdpn2xZI/k8z7tPupljs3RP7tMkmjjt0RP7tHUZDBfN9zZJ96rPnL5m//AGaZBNH5b/vv4qLWaOSTe7/w0dQKHiCZf+JfLsk+W8jqzfOskbyqkm/bVPxNeQyW9km+Pet5F/6HWxPNH9nf5/4aOoEMc3mRxJ+8+7T7X5PNT9596ixmXy4vn+fbRHdRxyS/P/FR1A8f+Kj28nxI8Pq6SSXjWM6W8cf39+/5K7/xBN9h0Oyll8yT7PcRO/l/feuM8Y+GNP0P4qeFPEaO8j3l5JE/mfcTcn8Fd54m1KGDS5ZWfy0ikil8z/gdKQS+Am8P+KrHxNZ3ctp5ifZ5Giljkifejr/fStKCZZI031xng6RrrxJ4g1iJPIsNSaPyo5Pvu6p87/8AAq7DTbmPy0V3/hp9QC1dY5Jf+Wn7ynyTL9oT5P4afvjjkl+eP7y0+eaPzE/4FR1AzfEE3l29k6fw3kT/APj9as8y/Z3rN8QTRx6Ojo8e9ZI3/wDH625Jo/Lf54/u0dQIY5lkt0/3ahjmjj3/AD/8tKmguYfs6fPHvoj8vzJfnj+9R1AZHNH9o/3lrK1yZY7jTH3/APL0v/jyVsb447hP92s3xG8cdvbvv+7dR/8AodHUUi/O6yRv89Pjmjkj/wCA0+48vy3T93TIPL8tPufdo6jK0DR/c/2qZvj+0P8AP/CtXLfb5j/6v71Mk8v7Rt2fw0dQMe+dY9Y0p08v5vMR/wDgSVfkSGSPf+7+WqeuJHHJpT/9Pio3/AkrSntV+zvR1IiPk8vy/uR/dpkEMcluj7Kfsj8tP9X92i1SH7P/ALrUdSyGNIY9/wAkf3qzY0WPxI6bPkltVf8A75etWSGP7Q1UL6GOPXNPdH/1sckVHUiRfkhjjki+T+KmXUMclu/yUT20flp/vU+e2j8t6OpYfZo5I/ufeplrDHHGj7KfBCv2dPnk+7TIIf3b/P8AdajqBQ0eGOO41CHZJ8txvT/gSVq/Zl+0bd8n3azbGHy/EGoJvk+aOOWtKSHZcJ++ko6hAJIVj8r55PvUTw/u/vyfLRdQ/u9/nSfK1EkP7t/nko6gVr62Wezli3yfNG3/AI9UeiJJJpFoxmkz5YqSCFp9mx6j8M28jaa0fnSfuZpIvyY0dQNy6eRLd/k8z/rnU0cyptTf5dQ3czRx/OlWY/Lk/wCmlWanmPjjTY/+EX1O4t0jjuftEn7yP7j/AO/XN/Cv954fld08t2mbfXT+NEWDwXcOj/fmb93/AMDrH+GW2Pw/9z70jVHUmJ08j+ZJRTN9PjdqOpY+TbHTJKf/AKz56JEo6gMjSj5Y6f8A8DplHUBk837v5Epkbt/GlPk20yN18yjqBZjp8brJ8lQ/6ynxwrHJv/jo6gWv4qjj/wBupt5qt537x99HU0JpJl8yuS1K5jj8eae/8DWstdPvWSuVuv3njy3R/L2LZyf+h1EjlqSOknvI5I4vK/vVNJNJ5bpskqtPqVrB5X+kxx7Wp8+vWckbp9sST/rnVm3MP86T7OnlJ/DTLV7qS3dNkf3qZHr1v5exEnk+X/lnE9FjqXlxv/od1J83/PKjqPmIbHzpPElwjvH8tqv/AKHWxJ50dxD88f3q5611K4k8UStDps+/7Ov7v5N/361Z7++kuItmlSR/vP8AlpKlZGEZG3Ikklu/z0W6SSRp8/8ADVCS81aSN9mmxx/9tUoguta8tNlhB93/AJ61r1L5i/bxyR+b++/iqhJbSf8ACSWn77/l3k/9DogfWJJH/wBGgjfd/wA9azbr+2n8UWm9LWP9zJs/evR1IlI6GaGTy/8AXfxU+SH92/76Ss2eHWvL/wBda/eWppLbWPL/AOPy1j/7ZUdRcxZjtvMt/vyVDGivJL/rN61Wgs9WkjT/AE+CP/tlVb+ytQjuJf8AiZeX/wBsqOocxDrG3+2NKiTzPmaT/wBAq5IkP3ET59u+s2+0S6k1zSvN1KT/AFkn+riT+5WrJ4YaON3/ALSupP8AvijqEZTNKxsIfLR3SP8A2KLWGHy3TZ/E1Qx6C0cf/ISuvu1Tj0GOSRne8uvvN/y1o6jLkiRyXDxIn8NZuuJHJcaVFs/5eo99Wf8AhG7eO8+e5uv9X/z1qhrnhu1j/s+XfPv+1Rp5nmvR1FLnN66hh+zv/u0yPyZLdP8AV/dqtJoNnJG/+v8A+/r0y08N6f5aPsk+Zf8Anq9HUZNBDDJHL9z5Gp+yOORPnj+7UMGg6fJJLvh8z5vl+/RJoNj9oREtvvLR1AzfEaRx28Ur+X/x8Rv/AOP1tzvDJH8nl/NWPr+g2MGj/JbJvWSP/wBDq/daJpdjHLcSpHGkSs7ySS/cSjqR1Jrq8s9N0tLu7mjjhiX53kriZPi7pMdxcJFbTyQpIv7z+/XK6bpV18VNQa4t0+yaPFI0UUkm/Z/v7P79d5ofwx0PTbh3ltvt8yqu+e43/f8A9ijqWcT8SviLoviPT/D76fcxyTWerW0rxyfwJv8Anp/jzxPZ31xpX2i5jj0GWSR/Pj+5NKj/AHH/ANiun8ZfB/w34g0eWyt7OCwml+5PH/A/+3XJQfDr/hH/AAX9ke28yawj/wBNsZP3qOm//XRPR1FI9LuvFWgxxp5uq2Mabf8AnrTPD/jPw/qWy3tNSgnmZtn7uqGk+BvBuq26XtpolrIjL/zy+49atj4V0mO3REsII9rN+7jo6jNLfH9olRHj/h30XzR/uvnSqEfhjTftD77aP7v/AD1p8/hvT/MT/Ro4/wDtrR1F74eI5of+EfuH/dxuu1/++XrV/cvH/wAs/mrntc8N6b/wj96/2NN6xs/8f8NaVr4b0uSzif7N/wAs1/v0dSPfL9j9nkt0+SP+JKI/JkuJU/d/w1QtfDelyR/PD/y0b/lq9EfhjS/tDp9m/h/56vR1D3y5OscdxF/q/mqh4mhj/seWVNn7po3/AO+Xp8nhvTfMifyZPvbX/evVPxB4b0/+x719km9Y2f8A1r/w0dQkb0kMPl/IkdQ2ttbyR/wR1Wg8PWMlvE/7/wCaNX/1r1DB4YsZI/uT/eZP9a9HUPfL8cMMckv+9RJDDJcJ/tK1U/8AhGLHzH/1/wB3/nq9Enhmz8yLY8/3tn+sejqMh8RwrHp6Son+qmjf/wAfrSkto/LdET+GsTxJ4btY9Du33z/Kqun71/4Xq/H4Ys5496TXXzqv/Ly9HUOpZhtoZI0/3aLW2h8yZP8AppVO18MW/l/8fN1H/wBtaZ/wj0fmSolzdf8AbOWjqL3y/PbR/aP+eaeXWVrEK/aNPZHk/wCPhU/76SnyeG1juIv9Muv+/tU/EHh6NNPSX7ZdP5U0b/63/bo6hI3pLZfs7/PJT47VZI/vyfMtVv7B8yN/9PvqZa6JJ5abNSvo/l/2P/iKOoyza23+j/66T71Mjtv3kv8ApMlVoNKuPnRNVnj+b/Yoj0q8juH2arP8y/8ALSJKOpYSWzR+IIvnk/ewt8/+69X54W8yJ/O/irH1KwvrfUNMl/tL+KSL/VJ/ElXJ7PUI43f7ZH8v/TKjqZxkXJ08u3f56Y8LSRojzfIy0z7BqUkb/wCmQfd/55UyCHUvs6f6TBJR1L5ia1SSONESb7tc99tuNNu7uHfH/rd35qtbcEOqR70Sa1k2t/t1yXiq21Y6w7f6L8yqf4/TFHUmUj0WeZZI/wDnn81Wf3bx1T+32t9GnlTRyIzf8s6mukWON3TzI/l/5Z1ZsedeON0fgdHR/MRpm/8AQ6yvhynl+G4vk+9I1X/iFNJa+B7RJf8Alq3+sjqt4H/d+G7T/dZ//H6jqEToZNvmPTKZPcxwfO7xx/8AXSqE/ifS4JHR7yOR/wDpnQXKRq76JHrE/wCEqt5JNlvbXU//AFztqJNV1STZ9n0qSP8A6aXEqVkR7ptyP5dMkdaypIdeuvv/AGG0/wC+5aZH4dvJ/wDj41WeT/pnHsiSteppzFx7yGOR97xx/wDXSs268Q6bBJs+2Ru6/wDLOP79TR+EtPj+d0kuHb/lpJLV+x023sf9VDHH/wBc6OpmZX/CTNJv+z2F1P8A3PLiok1LXp5E+z6VHGjf8/EtdJHuqaNGo6kcpz32PxJcSbHmsbRP+me+Wpo/D2pSf63VZP8AtnElb0f7upKOpfKYf/CKwyfPcXl1P/10lrEj0Sxg8eRReTHIn2Nm/eSv/frt65eSHzPiBF8//LjJ/wCh1kYyN7+zbOPyvKtoI33VZkSOO3dE8v7tVpLaOORH3yfeqzJDH5b1qdBNG6xxo+/+GoYLlfLfd/ep8cMccafJTIHj+f8A3qOozKsZlj8WXbu//Luv/odat1cxyeU6JJ/rKrR7f+Ekl2f8+q/+h1fupI/3Xz/8tKOpESaSZfLf5JKmgmXy0+STZtokmj8v7/8ADRHcx+Wnz/w0dSxkEzfvXRJPvVm3Uzf8JRZfuZP+PeStK3mj/e73/irNurmP/hJNP+f/AJYyUdTCRpTzSeWn7n+KppJpP7lQ3V5H5fyf7NP+0rJ/BJR1GMgmk8tNiVWjeaS8l+SP+Gnx3nlx/IklMt5pJLiV/Jkk+WjqBW1LzP7Y0d/3f+uk/wDQK0rpJpLd97pWVqM0kesaP8n/AC2b/wBArVnupI43/c/PSiECzH53l/fjqtapJ8+x4/vU9JppI/8AUx/dqhHc3Ee/Ykf+sp9QLM/mfbPv/wDLOsrXJpJLe0+d43W6j/8AQ6vx3NxJcfcj3+XWb4mhm+z2j7I/+PqL/wBDo6h9k2J45I43fznosYZJI0d5pPu0SQ3Enyfu6fB5kcf34/u0dQCOFvMm+eT5WpkkLfaE+eSq3nSR3Ev+r+9U0nmPJFveP5qOoFDxJD5ehyvvk+Xy/wD0OuS8aQyeNNci8KW9zIlnFGtxqs8f8CfwQ/8AAq63xNDJH4X1B3f7se9/9xa4z4MpJfeF7vXXfzLnVrqSWWT++iv8lHUPtnZ6PYLo+npbxJ5dtFuiSOP+BKzfE3iSTSri30+0/ealf/Jbx/3E/jd/9ha6G0hkkt/9d/E1cH400fUrHxJZeI7JJL97C3kiltY/vvEz/Ps/21o6gVvEFt408K28Wq6Zf/27DE2+402T77p/0yeu21hGn8L3bu8kbtatK8cn+5VDR/Fum+I7eKXT7+OR1Zd8f8aP/uVq6lbXEml3fmv96GT/ANAo6hL4DKtbNfD+sWksTyR2GqKu9P7kuz/2auksYf3b75pN+6sHVbOa+8DpKj/voreO4T91/drV02aS6s0l3/63bL/qv7yUdQHyQyfbHTfJ/q6fJC0mz55PvU/yZI7hHR/+WdEiSf36OoEOpWfmaPdpvk3+TJ/6BVnR4Vk0u0ffJ80MdEkMklncJv8AvRtUPh/zH0PT/n8v9yuyjqBZgh8vem+T5ZKf5P8ApH+uk/1dEEMnmS/PH96iRJo7hP30f3Wo6gE9s3yfPJ96odYsPM0u9TzpPmhk/wDQKszwyfZ/vx/epk8M0lvN88fzK1HUUiHR0aTT7SXfJ80cdTRwt5mzzpPvVW8OPNJ4fsvnj/1Kp/3zVyBJPMf54/vUojgM8lo7h/nk+7T5LZo40ffJ96jyZI7hPnj+7RdLJ9/f/FT6gVvEFs0mh6gm+Tf5Mn/oFGmwtJpdpL50nzRq9TX0NxJZyxecnzRt/wAsqoeHJpp/D9k++P8A1K0dTP7ZcgWTy9m+T7zUyOGT7Q/zyfdp9rDN5kvzx/ep8iyR3CPv/ho6mgyeFkkidHk+9VPxHbSf2Hevv+7Hv/75q5ded/fj+9RfQyT6fcJ+7k3Rsv8A45R1FIfa+ZPbxSpN95aLWGTy0Tzv4qh0N5p9Hspt8exo1qzAk3zp+7+9SiMZHDJ9olTzqJIZvtCfP95aP9IjvH/1f+roukmjkR08v71aAZuuQzR29pM7xyeVcR1pTpNJG+946oeI4Zv7HuN/l/Kqv/3y9XI5JpLdH2R/MtBHUfH53lp/q/u0yDzo49myP71FrNJJH9yPfT43m8yVNn8VBZD+++0So/l1T1DS5tRmWXYvyrs49iRVzzpPtH+p+8tTFpJORDxQNy90ffaPY3UkTy20fnbv9ZH9+ob7SbqC3l+yX8mzy2/d3H3Kv/Zl+T55I/mpmqvJBp8r745P3bUClyHkXxG1W4tfC+n293D5e5flkj+49M8M6PeX3h+y36lJBC0fyRx1c+LbrJ4X0+3lT70dX/CMPl+G9PT+7DH/AKys5FxiMj8H6b5m+VJLt/8Ap4ler8GlWtrH+6s4I/8ArnVulj/eVPKXy8o+NFjj+5THp8it/fqOrNBvzUyOpaio6mYSUfNJRRHR1AfHVnfUMf8Aq/uVNHR1AfG60tVZJvLojmZ4970dQLtco/mSfEBET/nxb/0OuorlN8n/AAsR0RP+XH/2elIxqHSSQyeYjvN/FT5P9W775NlQz+ZJ5W7y/vVZkhkkt/8AlnT6moRuvl7EeT7v/LSi1hjeN96fxUyNG8xG3/8AfumR7o5H+f5N1HUBljDH/wAJRKjpHs+yxv8A+P1q30Mflp8n/LSs21h/4qSX5/8Al1X/ANDrSvof3cW9/wCKjqTEmkSPy3fZT7VI/LT/AHaZHar9n/4DRAiyRp/u0dSx8Hl/6R/vVm3Tr/wlGnp/0xkq5Gkfz/J/FVC6SP8A4SjTP+uMlBEjVvnX7P8AfokmWidFjjd9lH7vy/uUdSCnpsyyfPv+61WfOjjuJfn/AIarabcrH8jvHH81TfaoftEq74/urR1Ax9SuVj1jSv8Ar4b/ANArSnkWTzU/2azdSuYZNQ0p0mjj/wBK/wDZK0rrUrPy32XMe+jqEC5A/lxomyT7tU4/9Y7okn+soj16xht0eW8g37apwa9Zyeb/AKTHsaT5KOouYuRu39oJsh/hqHxU7f2fE+z/AJeIn/8AH6fHr2mwSJL9pj+ZazfE3iHTZ9P2Jcx/66P/ANDo6jlI6GSaTzPnT+GiPzJLffsqnJ4k0/zHfzpP+/T1DB4ks/s6eV5kn/bJ6OoE3zSXDxbPnp8/mR3Fv8n8VZv9t2/2iWXZPI7bf+WT1NJrcfmW7vZ3Xy/9Mno6gTeKoZJ/CesRIn3rWT/0CuJ+BaNJ8N9PRE8vZ5iSx/7avWr4x+ItjpWn3do8N1JeXEciRWscXzv8lc34H17/AIRXxJrGgvbXXk37LqWnx+V8+x0+f/vl6Opn9s9OsfM+zv8AJH95q5LVdb1afxR/Y+hJB9vWNZbi6k+5bp/8XW3H4k+w28rvYXUiRMzv+6rifhJ45j8QaPd6rb2d1PNdXkvmyeV/Gr/J/wB8pR1NOYuaj8Om1y3e41OGCw1uKT5NV0z908yf7aVN4R8Q6xfahrfhzUHgv5tNhV/t0f3HRvub/wDbqbVfG114g83TNC02eeZZFiuLqT7kNaXhzTV8M6XLaW+iXX7378/yb3f/AG/no6mcpGlpXmf8IXF/q5P9D/8AZKoeDnm/4R/T9/l/6mP95/wCsq+8SXFr8P7e0i027+03Ua2Vv9z53atvTbyaxt4rRNKutkUccX8H8Kf79HUIyNv959oi/wBX92mXXmfJvSqf9tXH2iJ/7Kuo/vbPuf8AxdQ3WsXU8b/8Sq6j/wCmnyf/ABdHUvmNiPzJI3RESqHhl5P+EftE2RybVZP++Xog1iaPcj6VdbP+AVQ8Oa3NHo6J/ZV18s0if6pP79HUjm946GCaSO4lTZH/AA0STSfaIvk/vVjx69N9sl/4lt1J8q0SeIZvMib+yrr73/PJKOo+Y27p5vL+5T5PO8t9ifw1jz63cfZ3/wCJVffd/wCeVWY9ek8v5LC++7/zyo6i5ojPDKyR6HbxbI/3TSJ/3y9aUHmeY/yVz3hzW2h0+VPsF98txL/yy/vPV+PxD5dw7/YLqT5f+eVHUcZR5TSkeTzIn2UTvJ5f3KzZ/EP7yL/QL75W/wCWkVMn8QtJby7LC++7/wA8qOYXtDVkeSSP/U1j+EXm/sOKLZ5m1pE/75enx63JJGj/AGC+/wC/VZXhnW5ILO4i/s26k23En+ri/vPR1Dm946SN5vtEqbKfI83mRPsrKj16aO4f/iVXXzL/AM8qfPr03yP/AGbdR/N/y02UdTTmNKdJJI3+SOn/ALzy/uR/drNk1iby3/4lV993/Yoj1uaSNETSr77v+x/8XR1FzDPCvmR6HFFs/wBVuT/vl60oHk+fYlYPh/WJo7e7RLC6kSK6k/uf36uR69dR3Dp/ZV193/YpRIjIvyNN9oi+SOi4eaSNPk+61U59bmjkTfpV9/36T/4qi61ub7O6f2bfRvtpl8xZ1JJJ9PuE2eZujZP/AByqFjNJdaXaPs/5ZrU39tySf8w26+as3w/qskmlpF9gu/3Ukif6r+69WY83vmxBuj37U+61TQPN5j74ZPmWqEeqMlw6PYXX/fqrMniTy7hP9Du4/lb/AJZPQacxNP50ckTeTJ/cpk3mSMp8mTgY/Imq0/iGN40/0a6+Vl/5dnq1/wAJBb7j+5uu3/LJ/QUESkXvJk8xPnqtrk0kel3CSp/yzb95HVnfJHcfc8z5areILmOPR7hH/duy0G0vgPMfjFNHJo+nxJ/drV8OL5ej2SJ/zxWsT407ZI7J0/5510mlSeXp9v8A9c1/9ArORtAs7PM+/RHupKWN1pmnUfI60yR6dUVAD99QyPUM95HH8jvHVCfxDp8G9JbmP5f+edHUzlI0v79PrB/4SaOT/j0trqf/AKaRxUR3+tT7PK02OCH/AKeJajmHzHQxvVlH8uubjsPEF1Hsl1K1g/65xPvp8fhi4f8A4+NYupP+ueyKjmMOY25Jo4JKhk1W1+R3mjjT/ppVCPwNp8km+Wa+n/66XL1cj8JaPB9ywgk/66b6sv3gn8SabH/y/wAcn/bWubg161k8eXEsLySJ9jVP3cT/AN+uzg021gj/AHVtBH/1zrBtUVPiBd7/AN3/AKCv/odRIiRpSax5nlPFZ30nzf8APKiTUr6S3dItKnj+X/lpKlaUlysckXz/AMVPmmjkjerLMeN9U8vf9gj37f8AlpLTI01SSPZ5NrHu/wCmr1vQTRxxps8z7tVkufLk+5J96jqHKZVrDq3/AAkku+a1jmW1X/V7/wC/V+6ttWk8rffxx/N/yzioguZJPFEv7mT/AI9U/wDQ6v3zySbPk8v5v9ZR1IjErR2GoSR/Pqskfy/8s4qfHo9x5ab9SnkqzH5n2d/uU+P7R5a/6v7tHUvlMqDR5pJJUfUrqPc3/LPZVa60TzPEmno95fSboZN/72tiPzvMf/V/eqndPJ/wkGn/ADp/q5KjlIlEJ/D0Pl/Pc3Un/XS5qb/hHbPy3T9/J/10uXqzdbvLf54/+/VPj8x5Pv1ZZmweGdPkj3ukkj/9dXp8HhvTY7iWJ7OP7q1cghb+OaT71TRwtJcP88n3aOpHLEx9S0Sxgk0dEs4I/wDSlT/xytifStPj3/6HB/36rN1yHy7jSvnk3/al/wDQK2JLWPy33+Z/39o6ijH3xkem2f2dP9Gg+7/zyosYY/LlTyYPlaoZ4f8AR0/1nzLXj/xl+JeveA/9H0yzjjhlkWKK6k/jfZ/AlHKacp7TOkf2iLYkcfytWb4mSOPQ5ZX8v5WX/wBDrz3w58OpL6O0l1vxDrEmpSw+a0cdz5SI/wDsJXW6rYLpXgt4pZpLuaKNU8+T777Xo6kfZOtkeOP+Py6hsZofs6fPHs+aqcaRyR+a6fw1WnubHS9Pe4u3jjhi3b5JKOoGr50KXEvzxxosa75K4nWPHl54guPsPhSGO/mWTZLqUn/HrDVPybr4lXj7/P03w2q/9t7v/wCwruYLCz023t7S0toIIYm+SOOjqBxmj/D2PSo9Q1jVdVk1rW2t5f3kn3E3J/AlTeMPDdxquh6VrGiTRweJNJVZbWP/AJ7Js+eF/wDers76GOTT7hNkfzRyf+gVDoflyaPZPsj/AOPeP/0CjqBieB/FWl+MdHa7Ty438zZcWsn30f8AjR0rHsfhjb6HcXFlpWpSWGj3Ukkr2tv99Hb7+x6ueI/AFvda5Lquj376FrzMu+e3/wBRcfJ/y1Ssq+8VeNvDMbvqfh611JLWOR3urSX76L/Hso6lnf2tnp+h6WllZJHBDF9yOOpr7xDp+m2ctxd3kcEKr88kleY+H/iR4o+IXh/7bonh61sbNmZEuruX+7/cSun03wAslx9t8QXkmtX6/cj/AOXWH/cSjqQeb+H7bxBYx2/iuy8zVrCKaTZpVx990Z/9dEler+DvHmi+LvNltbny32rvtZP9ejr9/elXPCMy/wBj/wDLOPbNKn7v/frH8QfD3TfEGsS3sU0mjax5fy6laff/AOBpR1CPwHSXU0f2iJ0f+L56Jpo/s77HrgJ/Enirwd5Ka7Z/21YRSf8AIV0z7+z/AG4a6Hw/420fxNbv9iv4Hm/jjk++n++lHUDeguY/k+es3w5NH9nu4n++t1J/3wz1fsXjeNPn/hqt4feOOTVYv7t5J/48lHUCz9pX+0H+f5PLoupo5PJff92SrMm37Qn/AFzoutske/fH95aOoB50Mkb/AD/w1ZjuYfs6f39tEaLHH9+iB18tPn/hqwMfw/eRx/2nFvT5LyTZ/wACSOr/ANoj+2b9/wDyzqnoflx6hraf3biN/wDvpK0pNsdwj/7NZxM4jLq8Xy0bf/EtMe5jkjf5/kqa+8uO3f8A1e/dTI9vl1obkKXMcccSb/4aoeH5o45NVTf/AMvjOkn+wyVqwOslulZuj7Y9Y1tP+mkb/wDfSVHUxkXPtKyXCPv+TbRfXMflo2/+JafJIv2iL56L5447d/nqzYf9pj8t0pkFzHHGlTb4/LTY8dQ2sy+Wnz/xUEGbo9zHHqGqxfx/aFf/AIAyVq/aY/tkSf3lrNsZo4/EGrJvj+aON61Xmj8yF98dEAgQ315DHGj/ALz71Pkmjkjf/Wfd/wCeVPupo5Ld/njqaO5jkj+/QMrWs0flxf7tUNDuY45NQi/jW6kdP9xq0oJo/L+d6x4JlTXNTi3x7GaOX/xygzl8Rt/bI0uPk+4y1DPcr5kTo/8AFT5HjS4if93/AHKfPNHHHv3/AHWoLGX00Mlu708XELqrb+op8k0ckb/7VRxzR+Un+r6UAVH1ho7j/SLOeP5f9ZH+9qHWNStbrS5UiuY5Puo8f8abnrVjdftn3/4azfFWm2t9Zp5sMcm6RP3n/A6gUjyj4zRrHeWiJ/s1sQeJNPtbdIvO8yZY1/dxxVz3xbs5LHXLRYnkktnkTfHJ99K7yxtljjXYkcdHU0iYn9vXE8jpb6VdSf8ATST91TI3166jfZbWMHzf8tN9b1EdRylmP/Y+tT/63VY4/wDrhFTI/CX7z97f30//AG1rod4qHfRyj5TKj8H6XH8/2bzH/wCmm+rMelWtjs8q2jj/AOucVXN7fPUM8jRyJVhyhsqaNFqGN1qaOgQ//gFTR0yOpP4qAHb/AC6fsqtOnmbEq1R1AlrlYHWf4iS7/wCGxX/0OunrlbWFZPiJd/8AXiv/AKHUSMah08iR+ZEjpH96nz3Ecdu7pVa6tl8yJP3nzNVmSzjjt3fZVmoyC/j8tN9EE0Mm/wCf591VpNvlpsSprFF8v7n8VHUZWjvF/wCEol2f8+saf+P1pTzfc+T+Ks2DbH4om2f8+q/+h1qzzL5cX+9R1IiMjm/dv8klPhmb7On7mT7tHnR+XL89Pt5o/s6fP/DR1LGQO3z/ACSferN1KZv+Ek0z9z/yzlrSgmX97vf+KsrUplj8QaVL/wBM5f8A0CjqRIv300n2d32R1cj85I0+T+GqGpXK/Y3+SSRGq5HN5kafuZPu0dSCGN5Ps77PL37qhsUmjvHR3j37amjkk8v5YX+9T4Uk+2O+z51jo6gUNYeb7ZpXzx/8fkdbc6yfvfn/AIa57xBNJ9o0zbD924jrYkmupLeX9zQEB8aSSW6b5q8Z+NnhXVvEeseH9QtHgv7bTbpf9Fu5fK852f5K9dj+0fZ4vkjrmPHnhKbxjo9xawvHHcxTRXVv5f8AfR/k30oyLMrwx42k1XxJFo+p6bdaLraxtL5EmzY6L/ceuq8VWzf8I3qDu8nyR1z3hnwlfabrEviDWHjk1u/ZkeP+C3Rf4Eqt4u8W6hrmn6hp+hQxzwrH/pGpSfcT/c/26fUDe8QeKrPw/HbxJ59/fyqvlWNv993rB0rwNJ4g36n4lmkkm3b7exj+5b//AGdb3hHwZHodv9rSb7Xf3Cq8t1J99624LaT96nnfJuo6kBaoslwmzzJPlq55P7xEdJPvLVa1tmjkTZN8+2r8iSeX/rv4lo6gF1bR/Z7hN8n3WrK8Kv5nh/T0dJP9Stas8M37399/DXMWuqx+H/B9vqF3c+XZ2sO95PK/gWjqB0MkMclxL/fVlrE8ePDpvhPVbv8Aeb4rOf8A9ApnhnxVH4xkvntHnj8pY32XEXlPsb7mysr4vJNH8P8AXd83yfY5KOoFzwH4et/D/gPSooodn+hxu8f+3srpI9slY9ijR+H7GJJvMdbWP/V/7laUcMklun76Tfto6gM8Kwx/2fcI6fdupU/8fqzJpq/bHfZ/yzqn4ZtpI7fUEeaT5bySr8kLfaNiPJ8y0BAJ4Y5I4nSH+Jawdf8Ah7oPiDe9xYRwTfwXVp+6nR/9+uhns/It/vyb/lp/2b94nzyVZZ57a+G/F3hmPfpmpQeIYVXf9lv/AN1Ps/2Hp/hHx/pcesanp+sQyaFqssyulrd/7n8D138Nt9z55P4q56TwxY+INY1u01C2ju4W8t/Lk/2kqOpjI6eOGGS4ieJEkRlbZJHU11bRxxv8leez/DG80O4im8Ka9PprqzbLG8l82D/4qi68eap4Zj8rxXpU9h/1ErT97avVlnovkx/3Khgto/s6Pspmm3NrqtnFcWV5Hdwsv+sj+5T4IWk/jk+9QWUNKhj/AOEg1WLZ/DFL/wB9JWr5Mf2iL5KzbWFo/FF7Fvkj3Wscv/j8lU/iN4hj8F+F7vW5ZvntV+SOT7js33KIEQNi+s4/s7/J/DR5Mfl/8Bry7wz4k8eePPD9vqaTaVpMMsfzxyb5Xf8A4BXf+HLPVI7P/ia3ME83y7JLf+NP9tKCyzBCvl/c/iqtYwxx+JNQi2fehjdKuRwt+9+eT5WZKoSQ+X4s3b5P3tmv/jr1HUzkaUkMcckT7P4qLuGP7O+xI/u1DJD+7R98n3qsyW3mRum+SrNBlvDH5afJ/DRBDH5b/JH96iCFZI0bfJ92mRwx+ZL88n3qAKccMcfih/kj/e2u/wD75etKdI/kdEj+9WVPCsfiSyffJ+9hkT/vny61bq2j8v7kn3qIEQJpIY/Lf5I/u0QJH5afJH92j7NHJG/+7TIIY5I0oAZGkfzpsj/1lZU/lx+KPuJ+9t1f/vl60kto5LiX5KyrrTY4/EGns6SfOsieZSkRI25EjkkR9kf3qfPDH9nfYkdMkhjjj+SnyW0flvTLIf3fl/cj+7TbRY/Kxsj4OKS1hjk2fJVXyELyYSTG6gDZgRZLh/8AdrN8Rwr5doifxXEaf+P1pWsKySP8lZuuQyeZZfPJ/wAfC1HUDyv4to0nijT0f7jSR119cV8SppJPHGnxS/wyR12ce3+/R1LiOps6NJG+x/Lp/wDq6ZI9HU36jIHby/v0SO3mJRDUMm6OTdvo6mZcnqnIi/Om+rMj/u6p+WvrR1NAj21cjqhH99KueZR1MyaPtU3+rqGN1j++9Qz6lax/O9zHHQBcjdpJETZVzzK5v/hLNJjk+e8g3rU3/CZ6T/BeeZ/1z31nzRDmibckPmVytpC3/CwL1E8uNPsMe/zP9+rn/CTwz/6q2vn/AOucT1iadqVxJ44vXi02eT/RY0eOTZvolIxnL4TsLpJPMifzv+WlTXSN9nf99WbPcatJJEn9lRx/N/y0lpl9/bklu/7m1jT/AKaS1oWWY4fufPJVm1hj+5s/irNtbbWPk33kEfy/88notdN1KS4+fVZPvN/q4qOoFmCGGTxRcJs/5dY//Q60ri2jjki2JH96ueg0e4/4Si436rdSf6PG/wDB/fq/deHlkki3391J83/PWjqRGRsSRx+W/wAkdPgaGO3id3jj3LXm/wAVPL8M+D7q7ivLqOZpFiSfzX+TdXnsGm30mj+H9V1W2n1qbVLiO1t9KkuXi/dfxzf77UdTY+h4Hj8yXY8f3qzb6aP/AISDTPnj+WOX/wBArkrHw3H4O1yK0fzLvR7+TyovtH37eXZ8nz/3GroZtB0+PxJpmyzj/wBXIlRIiRq315ax27o95HRHrdjHsR7yCnz6Jp8du7pYQf8AfqrMdhZx/wCqs4I/+ucSVYGVB4h0+P79zHs3NRH4t0+SR3Sb5NuxP3VatjDDHHsRI4/mo3rHeOieX/q6OoHMax4hsf8AQn3zyP8Aao/+WT1q3XiS3kt3RIb6T/t2emeJrlY47L5/+XyP/wBDqzJqUckf+ujjrIiMZlaDW45LdP8AiW6jJ8v/ADyqhdeLbXw/Hd3d7Z3UcK/8tJKm1XxzpvhzT4klm8+8l+SK1j++71laP4euPEGoPqviV45JomV7fTf+WFv/AL/+3QWZU76x4/uLd7iwurDw999II9kU93/v/wCxXSak81j4Tu7Ky0SeC2ihZFjj2bE/8frpJ3hjki/3qra5cwyaHqCb/wDljJ/6BWvUJRK1jf3yW8SLpUkn7tf+WqU+O51CTzUTSvut/wA9UrVsb+OTT7R9/wDyzWi1m/eS/wDXSjqRymVHf6tHcIi6VH/q/wDn5Sn3VzrHl73sEj+7/wAtUrSkuVjuET/ZouryOS3f/WUdRmb9p1iSN3/sqOT/ALea868eXmoW/wAH71JbCOOFljTzPNT5P31er/aVj/gkrzTx/C0/wX1iKJJHmg8yVPL/ANiajqTy++dha3+peYiJpUe/yY9/71KwfiVDql94P1hJdKjjRrWT/lr/ALFcH8OdYjj8QaJqf/CWya1qWpRr9qsY/uJF/uf31r2nxA8d1pcqbJPmWRf++ko6j5TlfBb61feD9Hlis4JElsY/nkuf9iuhtU1yPZ/o1j/Ds/ev/wDEVifB3VftXw30dH8zfbxyW7/uv7j12djcr9ni+ST7v/PKlyi5Tm9DfXPtGqpssY/9Mbf5m/77JV+RNcjvIn/0GN9rfP8APT9DuWj1DW0eGT/j4V/++kq/JN5dxEmyT+KiI4xM2+/tySP79j/2z31Zjs9ek+d7mx3/APXJ6uXT+Zbv+5kqaO8b5P3Mn3afKHKY9rDrXyf6Ta/xf8snqtYw6xH4k1NPtNrv8mP/AJZPWxBczeZ/qZPvVWguZo/Flwn2b71rH/469HUiURl1ba55kX+mWv8ArP8Ank9Pns9cnt5UlubGSFlZHjkifY9X7qaSSSJ/s0j/ALyrMk0nlvshko5SuU80k+D+oWtwl74f1iDw9ct87x2kT+Q/++lVpPHnizwdcfZPEtta2ls0mxNVt4nlgd/9v/nnXqMFzN5cX+jfw0z/AI+PtEUtt5kLN88cmzY6NVj5TmNNv9S1LxIlxaXmmzwy2fySR79mxXqh8WNB1DxB4Hu7fU7+xsLCKSO4e6j3/JsrK1jwHeeH/FEV34KePRbyWOR3sZP+PWb549/yVZvvHNnqunv4a8Z6bJotzeL5Txyf6iZP9h6ziRGJiWPwovr7w3Fqf9qyR6lLH9oTUpJXidEZPk+T7uyuk+GviHxB4q8H2WoP9ljdt0TySRP87o//ALNRH8PZJNP/ALPl1vUp9H8vyktfM/g/366rR7CPStHtLSytvLtrePykj/uItaF8pWj/ALYjkl2TWu/d8/36oT22rf8ACQWrvcwRvLbyIv7p/wCGt6BJJLiX9zVDUnkj1jR32f8ALSRP++kqOpEoj7ux1aO33/b4Pl/6ZVN9j1R/+YlHGn/XKrl15klu+9KfH53lp8lXylcpm2tjqEkaOmqx/wDfqj+zdQ+0Sp/aUm/5X/1VXLF7iON02R/ean/6R9of/V/do5SeUwdS0q+j1TSpn1WT/WSRf6pPk3JWldaVdfZ336rP93/lnElQ+IHkg/s93SP91eR/+PVsSedJG6fu6jqKMffKEelXXyb9Vn/7ZxJTINKuJI3/AOJlPH83+xV+D7R5af6v7tMgS48yVP3f+soNOUrR6HN9of8A4ms8fy/7H/xFZusaPNHcaZL/AGldSfvtn8H8SVvSJMlwn+r37aoeIEmgt7eXfH+6uI3/APH6OUiUfdHz6DJ9nf8A4mV193/Y/wDiKfJoNxJH/wAhi62f8A/+IrS2SeXs/d0QeZ9nT7lWLlMe10S4j37NYn+9/wA8kqKTRbqFyP7Vn+Y7v9UlbUCNHJMu+P71RXqyNNnenIzRyj5SWCFvMlffJ96qeuPJ9s0xH8v/AFnyf98UQf2om/YkE/zf9cneqGsaw0GoaelxZzwfvG/eR/vU+5UdS5SPMfHj+f8AEiyT+PzFrto0rz3xVqS33xEiltE891k+SOP/AGa6r/ieXX3EtYE/6affo6lxNiSoY3+/89ZX9iahP/x96rJs/wCedvFT4/BlnJ/rZrufd/z0lrIvm5i/Jf29r8ks0cf/AF0lqhP4n0eDej3kf/bOrMfhLSYdn+hx7/8AppFVyCzt4P8AVW0cf/XOKtepHvGDJ4thk2eUl1Pu/wCecVQyarqE8my00qT/AK6XEvlJXTybZKh2fxpWfvmnKc9HDr11Im6a1g+X/lnvlqaTw3fSf8fGsT/9u+yKtuNPLk30+gOUzY/BmnyfPK887/8ATSV6vweD9FjkT/QIJP8ArpVyN/Mj+5VmP/Wfco9wOWJDHo9jb/6qzgj/AO2VWY0jj+4kcdP+aj/V0iuSAzd+8rmLG5jj+IGob/8Anzj/APQ66T/WSJXMWMyx+PNTf/pzjT/x+qkc1X7B08lyvmJsT+Ki6m8yP7klEk0f7r5/4qJ5o/L+/Vmw+O5aPZ+5k+7RavJ8/wAkf3qZHeR+ZspkF5H8/wAkn3qOpBWgeb/hJLjYkcb/AGVP/Q6vzw3Enlb3jT5qoWs3meJLv5JP+PeP/wBDp/irxPb+GdL/ALQu4Z5Eib/Vx/fejqETy79omb7dZ6JoTzfvr++j/dx/wItbFrYNd/Ejw1pkv/MG0nzX8v8AgdvuVw3xG+3R6fp/jXWLOeB5dQjdI/47e3X7n/A2rvNN1VoPjBb3EsMcH9peH43ijk/j2vR1LOh8eQt9jsovOk86XUoNn/AXrV1K2b/hINK/fSfMsv8A6BWDY38fjTxZ9ttJo57DS2ZEk/ge4b/4lKs+Mdebw/eaVcSpHI/7xIo4/vu7JUSJl8Bt6lNZ2NnLd3d5JHCv/PSuYn8Z3mqSMvhzRJ7+Ff8Al6uN8SP/ALlMsfDF9rkn9q+I3jkf79vY/wAFuv8A8XXbR+ZHHsR440/55x1YzidNvPF0lmkr6bYxu27fBJv3ptqHSviLHJeSxaxpU+kvEux5JIn2JXTx+ZJ9+b59zfvKh1JLeT97qDx7Il3pJJR1GQ65bQ31vp93FNA9s11Hskj/ALrPWV4j8SNHqH9iaJDHd6q335P4LdP9uvLtS8W/2lqEsXhSaePw215HFe3Un+ohlZ/+WVekaH4bj0eP7PaeZJuk3vPJ993/ANt6OpB0ng7wZY+H/wDS7h/t+pXC/vbqT/2T/YrpLVI47iX/AFf8Nc9o8LSW7pL/AK5a0rGzj+0Sv+8kdlWjqWX77bHsl/d/eqnqUiyaHd/PH/qZP/QKffWy/J8n/LSodVs4/wCy7v5P+WMn/oFHUiQWN9DHp9o8s0f+rSrljfwz+a8Tx/6z/lnWDpUMMmlwpKnmboY3/wDHKueH9Kh02SWJIfLRpN//AH1R1INiSaP7RF8/8LVT1K8aDT98SRyfN/q6mnSOO4RIof71M/d+W/yfw0dQL8jrJGnzx/NWDoaR3Wl3VpL5cls1xPE8f99Geuh8mP5P3Mf3axPD8Mcdnd/JH8t5L/6HR1D7Zg+Efhd4d8AahdXemJI9zLHsSS42Suif7FdbG/l26ebN5j+ZH/6HRJDH/akUWyPY0bPVm+to47dHSGP7y0dQOG+DM0cej+ILR38tLXWrmJI/9jfXeQTRx28X76P+5Xl3wnuYY7zxnE6eY665OnmV6RavH5afuY6AMrStStZPEniCJLmOSZWid445f9itWS/t47i3+eP5mrzH4V3lr4g+JnxFvbRI5LZZoIknj/2UrY+M2t6p4f8ACcV1onkR3jXkUXmSfwIz/PspcoHc3V5H9nf5/wCGmQXnlyJvf5GWsHwPr02ueG0lu/LkvF8yJ5I/uPtf+Cuhj2/Z0b/ZpgMjuY49/wA//LSqf2mOPxgj7/vWbJ/4/V+B1+f/AHqp3X7vxRp77/8AW28qf98ulHUJF+6vI/LT5/4qm+2RyRulE237O+7y/vVNvWrLK0F/DHbrvf8AhojvI47iX/vuprXb9nT/AFdG9ftDp+7+6tAGVqN/HHrmlS7/APnqj/8AfFP8QWem+INPltL22jv4W/5Zyf8AslHiB449Q0d0/wCfpk/76SStW6dfsc3zx/dqOpEDzH/hHtc8ASeb4XuZNa0f+PR7v76f9cnrY8I/EvR/Ee+03yWF/F/rbG7/AHUyV23nL5af7tcl4m8AaP4yjeW7/cX8UjeVfWn7qdP+B1ZZ0Md5H9sd0f5GjrN8QTLHcaPLsk+W8Xd/wJJK4aDVfFnw9vEi1OGTxRo6r8l1af69E/20rbk+IWg+JtPtHstSjkmivIneCT906fP/AHKiREjs55lk3pskojvFjjRNkn3amkmjkjf54/8Av7UMc0ccab3j+7VljIJv3kv+s+9TPtPl3CfJJs21NHeQx3Eu946ZPeR+ZF8/8VBBm+Jpv+JWjpDJvWSOX/vl62/tEnl/6l/u1ieJ5o38P3fzxyfu2dP+A1qwX8MlvF8/3lqOofbGQXMn2dP3MlEdxJ9olR4ZJE+Wq0eqWscbp50cjq2/y/4/mplrrEf9ofck+aP5KOoF+SaSO4ifyZPvVQ8RzTSaHdv5P+qVX/75er91eRxxo+yTZ5lVtVuI5NPu4tknzRyUESLKX80mz9z95afBNJ9n/wBTVDStSWSztJdknzRr/wCgVfguY/nR0k+9/wA8qCx8byR3Ev7mluJpvM5Tmo5LlftCbEk+aOo45hNuY+ZnOKsC1azNHv3wyfeqhfXMcmsafsf7qyP/AOOVpWs0flv/AH91Zt15cniS0V/Lf9zJUdQPIvEFnH/wtxJU+/8AM7/7fyV20dc3rGlLH8TJZUTy4drf8A+Sukjo6m8SWimxvT94o6l9ST+Ko/lo/wCB0lHUOpFRJRRQHUrfNJU0aUypo6yAsx/3KswJVCPd9+tKGgOo+Sby6h3+ZTH/ANZTEmbzNmygOpNsrkrGGO6+IGq708zyrWNK6rfXK6OnmePNY+fy9tvGlVIxq/YOhkhWOSJE/vVZukj+zv8AcrNvkb7RF88n3qfJbL9n8395I9WUX/lj2PTIPLjjfe8fztT/ACY/LX5KfBDH9nf5I/4qCChps0cfiCXe8f8Ax6x/+h1fvvst1sil8uRFkV/++aoaVCsfiC7TZH/x6x/+h1sXW2Pyn/d/6ygcfhM3WNN03xBb/ZNThju4fll8uT7m9Xqh4j8E6D4xs7KLU7OSR7Vf3UlvvidEroZ5o/8Apn92nwTQx26b5o/u0FGVodhZ+H7f7FZW3kW0S/JHHXGaVNJ4m8YW+tywySWcTS2+nwfwOi/fm/366rxjrC2vhvXZYpo43W3k2f8AfFcrqviex8HeH/DX2R455lt/Kt4I5fvuyUdSJHVax4qsfD9n/pc3lv8AwR/xv/wCs2x+Ii32oW9p/Y+pR/aGVEupLZ9lU/D9hpum2732oXMF/rdwvmyzyfwP/cT/AGK6qTxPYxx/66SR/wDpnE9HUv3Blr50e/eiR/NVDXNHj8QRvZXcMEltcR7Gjk+46VNHrEP2fZsupNzM/mRxPTI9Y/0hEisL6RNv/PKgfMcr4m8J2uleB/7KtLaCwtmmX93b/wB/fWl4VS61XR7J/O8t9vz/AO+tXPE2q3Ulnb7NHuti3Ub+ZJs/v/79ZXhW8vo7d0TTZI0W6l2fvU/v1HMYc0TpLGwmj+fzpN8vyVtxwySXDok0n+r/ANZWDo/9uSR+a9hBJD/BH5vz1qx3OtR3D/8AEng85o/+fmrDmiWdStpvLi2TSf6z/nlTL62b+z7vfNJ/q5KhvptakjiR9Kgj/eK//Hz/APYVWurnXJLeWJ7Cxjfy2/5eX/8AiKOoSkZvh+FY9PtJfOk/1Mf7utixhWe8l8qaT/brntHh1yTS7J4rax2eWu/96/8A8RWxY2fiBLiV0TTY923/AFkr0omcZGrJZxxyRfO9MuobeOzfdNJ935KreT4gkkRHfTf9Z8n36fdWuvSW7/8AIKk2r/zyen1L5jStbdZNn76f7v8Az1rK8P2a+XqEXnT/AC3klEb695afPpv3f9us3w/Dr3mar8+mxv8Aam/v/wByjqTKRvSWcceqW/zyfNG1TalbeRZu/nSfL/z0rKmtvED3EX+k6bJMqts/dPXN+PPEmtaVb/2e+pabHNcRtLLP5T/6PEv8f3/++aOpXMcx4V8Q6T4V8SeMLLVb+O0mXVPNSOST53RkruZJtL8ceH5bTR9e8h5VZPtVvKkron+5XgngvTY5/HEusf8AH/oks0cSarqdt8jyt/cr2+6+HU0+npFaXOm6a8UjPFJaWz70ff8A79XIfMcx8JPCtn4H8eeMPDVu8kkMUdrdW8nm/O6Mnz76rftE69Zx+H/7Et4Z57yWSOV545fktE3/AMdMtbPxJffFi0u/OgjvLezay1Xy4/uJv+R9m/8Aire+KHgnVr7wPrflXkE80qxyvHHbeU821/79L7Ycx2fhnQbPTdHtLSJPkt7dV/1v33b79bEdrD9niTZ/DXMeHNN1K+8P6fdpr0kfm28b/wDHsnybkq/Y6JqU8aP/AMJDPs/65JU9SOY247OHzJfk+6y7KoX0MKeINKfyY/mWRH/74qt/YN9HcOn9t3X8L/wf/EVT1XQ7iPUNHd9YupHaZkT7nybk/wBylIJSOnuraP7O7pDHI/36sx20Mkf3KxLjw3cSW779bvtm1v3fyf8AxFPj8PXUkaf8TvUvnX/Y/wDiKZXNI0rG2hkjdHh/5aNRJDD9o8rZ/DWVb6DIm/8A4nF98rN/c/8AiKh/4R6T7R8+sX0m5W/efJv/APQKCeYm8QQxx/2e6JH8t4m//gVbcmnxxxv8kf3a5LxHoMkGlxP/AGrfSeVcRP8Awf3/APcrYk0Gb/oMal/39T/4ijqKMjSghhkt4ndPn2rRHbW/735I/las210GT7On/E11L7v/ACz2f/EUz/hG/MuJf+JrqSf9c5U/+IoHzGr9mhjuE2Imza1cZ8SvAGj+INHluHs47S/iZXivrf8AdOjq9dDJ4e8uSL/iZal8zf6zzap+IPDax+H73/TLuTbCz/vJf7tHUUuY5iN/HXg6NFlsLXxZYRf8t7T91dbP9tKuab8YPCs9vtuLmSwv4vv2N3F5U/8AwBKoeNPEljo8aW9lqV19v8tXeeS5fZboyfx/7f8AdrxbWPAHiT4m6w8tlZ3UEMSs76rqf7p5nX+5V8oRke3yfEjUP7Qle08K3Ulssfm+ZJF5Tulavhn4kaT4x8pLfzILlZNj2txF86VlfC/wveR+F9PTW7m6nv2j+eSSV9/+xWr4n8AabPpdxLaQyR36sssU8cr799Bp750msQrcaPexf3oZP/QK4nXPEN1H4o8GaVZXPlpcRtdXUf8AsKlbGlW2l33hf7bKkkaNbs8snmv8m379eS/Ce2j8TfEDWNQ1W28iGzsY0igk3/JF/BQZ/bO8+IWj6TBb6h4l/tKfSb+3j2PdWn8f9xHStX4e3mpSaPpUuu+X9vljZ3j/ALifwb6zfHHgO31jS0uNKtoJLmzmS9S1k37LhF/gq/4RufDviq3ie302CCaKRori1ki+dHX+/UdR9TsL68t/s/8Aro/vK9Mur+3kjeJJo/mWoZ/Del/Z38mwgj+Wpo9E02T/AJcIP+/VLlFLmM3w5qtjH4ftUe5g3xLs8vzP7tatvrFj5kuy5grN8K6Jp/8AZ7xPYQSPFNIn/fL1qx6Jp/mOn2CDZt/55URCPOMk1Kx+0RbLmD+JP9bVb7ZY7mxeQYz/AM9as3WiWPmRf6BB/rPn/dVM3h+wXAFnBjH/ADyrQPfLMCRyR1leTH/wkif8s9tuz/8Aj9X4LaOSNH/eRvWb5bf8JBcbJvuwr/rP9+oLkcHfJ5fjCVHeSRNrPWxWDJ5knjC783y96L/yzrb/ANXR1N4fAS0+qlxqVrB/rZo4/wDtrVCfxbpMEf8Ax+R7/wDpnR1Dm5TY30ysGTxhayf8e9tdT/8AXO2ej+29Sn/1Wjz/APbTZFR1HzHQx9qZJ+8krH369P8AchtYP+um/fTP7K1af/W6r5f/AFzio6hzG3sX5Kf51vH9944/+2tYkfhLzN32jUrqSnx+DNN++8Mk+7/npK9ZC5pmlJr2nwRv5t/BHtqH/hMNHjj/AOP+On2vhXTY5P8Ajwg/79Vqx6bax/OltAn/AFzip8oe+c9J4502T/VefP8A9c4npkfipp5E8rTb6RP+uVdVGix/cSiSkHLI57+276T/AFWj3X/bTZXPaHc6lH4w1t0s445nji3xyS/cSu8kSuS01vL8aawrp/yxiepkYyj8Jfkh1qe4i3vax/8AfdPn03VvLd5dSjj/AOucVaU7tJcRfJJ8tTTpJJbunkvV8ptylaPR76T55dYn2f8ATOJKrSaU32d2e/vvvf8ALOStuN5o4/uVW+zST27J+7+9SI90xNN0GGTxBd/6ZdSbreN/3kv+3WxP4bsY9m9J5P3i/wCsleq1rDJH4ouER4/+PVf/AEOtifzPk3P/ABUEcpQk8MaX8/8Aoyfd/wBurMGg6bJGn+hxyfL/AMtKmkSTzPv0+OFvs6fPJVcptyxKEmg6bNHdxPZweTKux/8AcZK8l8MQtH8ZNK8OXsMH/Ehs5Eik+T/SEb7j/wDfFex+Ssfm+a8leSwabDqvxw1i0l8zf+6likj++n7n+B6sxkex3VtH9jl2JHH8teIeP38XeMfGHm+FLyS0s9DkjiSSPfsmlb7++vWvs11a27xSvHf7fuSfx/8AA680+E/ifSfCun6rpWt3kem63b3kstxHd/ut6M/yOlHU1H/Dm88TSeIL27vdV+1wtqklk9r/AAIip8+yvXd8f9oJ8/8Ayzrxn4O6lY33jzxXaReX9m+2NqFr5n35kdPn2V7NsjjvE+SP7tHKMyvFzxx6P5rvH+6kjf8A8fqh4RSOfQ0l/dx+bJJL/wB9PUPxUvI4PC/2L93HeX80dvF/vs/z/wDfNdPBpsdjp9vaRfu4Yo1iT/gNBAabMsFmkTzeZ81TR3kf2h03/wDLOodKTyLPZ/rHVmp8G2O4d/42jo6lFm+uY/LR38z5WqnfXMckb/6z7tF9N9z/AHlp8ky/P/f20dQM3wrMv/CP2Sb3kdY60oJvLuJfkk2fLWb4VmWTw/afPHsVWT/x+tKOZY7iX54/urR1Mvsk19eLHJE6JJv3UySZpI3+STZVbUryODyt7/8ALSrMlzH9n+//AA0dQGQTfc+SSs3Q5pP7Q1hPJk/4+Fb/AMcqbzljjieJ/nqHSryOPVNYTf8A8tI//QKOopfEXNY1aPSrdr2VPLht45JXk/2FSvKPA+gyfEqTUPEetwySW0s2+Kx/gdP4N/8Au1sfHC8a+8N6fp8T/Jf6lFZP/uM/z139rbWelaOlpaJ5dtFHtSOrNDifEFnD8UPCdvpWiQx2CW99G+/5P9HeJ/7ld/HNJ5b/ACSf6yvGfhD428P+EdP1j+1dSjg+36tK8Ukm/wC59z53r2m1uYZI3lim8xGbekkcVAHH3ztY/FTT5Uh/5CmnyRP/ALbo/wAldhO8kdv/AKn7jK9cf4umX/hYHg+VH+756P8A8CSuturyOS32f+0qALMnmSfehjplq832dPkokufM2eV5lQ6beR/Z/ufdZqACTzpLh/kj+6tU9c877Ro7/u/lvl/5a/7ElXJ7lY7hHRJPu1T8R3K+Xp7ukny3kX/odKREjbkeby3T93TLV5Ps6bPLk+WnyX6/P+5kqGC88u3T9zJ92mWMjeTzJU3x/eok8zzIv9X92mR3DSXFx+5konmbzInSGT71AFDxUk3/AAj93K/l/Kqv/wB8vW3G8kn/ADzrK8RvJJ4f1BPJn3tG1aVreSSWcT+TJ8yr+8qOph9sLV5PL2I8fys1H7yO4f5497LTIJpI43/cyfepkk0n2hP3Mn+rqzcsz7v3T/u/9ZXK/FrxO3hHwXe3DvH51wrW8Ucn99krp7q5kjjTZbSfKy15X8ZplvvFHg/T7izkktvOkuLiP/Y2UEB8L/AH2rR7LWNVSOeaVVe3ST+Dd/f/ANtq7bxB4hs/CNnLcXs3losiokEcXzv/ALiUeH79oPC9pL5P7mK3+eT/AGFrzrwXDffErxxd+M7rzI9Ntd1vp9rQEffPV7G5W+jtLiK58yGWP5JI6syeZJbu/nSfKy1Wk8yOSJ1hjT5qmjmm+xunkx/doGYPgNJI7PULTzvMSK+niT/vuuAsdN1bSviJvtLaSez1mH7E8/8AAmx5N+9/9yu5+HrzSWep3Hkpsl1CV08ytLw+9xHHexbI/lvJP/HnoJl8Rx+j+MJvCuuahoXiJ5LRIv8AkH3X8FxF/B/wNaZ4fdfEHxMl1jR4Z49K+z+VdXUkTxJNL/BsT/Zr0K+hae4TzYYJPl+TzKZI80FuiJ5EaKy/u46BmlPD+7fe8mzbRBCskafvpKhkS6kj+/HTLWG6+z7/ADo9i0AQ+HIfLuNTid5PlvJP/Hq1Y4VjuPvyfdrntN+0R6xqqb0j3NHL/wB9JWrvuPMidpo6IBAuXVtHHGj75JPmWp/LVMje9Z90l1Hbv++joE1xtXfNHuxQBWg03UII0+z6l5ibf9XcRf8As9Zsc2rR65d/6HBcbY4/9XLXQxvN5aJsjkrKtZvL1TUJXSSPasaPUcouU8u33WseLL2JHn02Zfv+ZFWlH4PtZN7y3N1O/wD00lf/ANApljMs/ijU5a3o3/26Uom8YmbB4S0m12OlhHJ/10q/BZ2sEeyK2gT/AK5xU+T93HTEfzI6Zpy/yk0dMj20fLRG9HUOUf8A6uOmeZTN/mSfI9MkdqOpZcjfzI6mjrNtd0claUdHUjqWY0by6N6/coqGP93JR1As0URutM86OST79HUAkSuP0eb/AIrjWvn/AOWMddVI7SSbK5LR4Y/+E81vekf+pjqJGNXeB1Uky/aIvnjovrzy4/lqtHD/AKYj1Zvv+PerKLMl5HHs+SSixuFkt3+ST71GxfMR6ZYtH5j7/wC9R1ArWr+X4suHRJNn2OP/ANDrVunaTZ+5k+9WVHMsfii43vH/AMea/wDodX7q8h8tfn/5aUERHyPJ/wA8f4WojeTy0REj+7RJfxx/Jv8A71MguV8tP9Z92jqWVoEmkvLt/kjRWWvN/H8zeDviZ4a8SyvHHDfq2m3H+w7fcr0uC8/0i7TZJ96uV+IGg2/i7+z9Ku7aTybjzNsn8aPs+TZ/trR1IkdJJNNJG6Sv95f+WdU77w9Y6xcRPd2drdzRKv7y4iSV021wfhXxtNpV4/hLxL5aeIbWP/R55PuXafwOn+3XpFrNceWieT+++WjqUGm6VZyXD3aQx/aYt0Xnx7N6J/8AEU/WNStfD8bXt7cyRwxR/wCsrB1bxzY+HJJYn8ue/lk+SxtP3szvVCx0HUtY1i31jxKkHnRLvtdNj+5b/wC//t0DKz6Pcarby+INYSSOaXy0tbWT/ljFv/j/ANtq9Ljto49ifvNm2uY8TedJo/zvH95Xf/vuuhjS4+T546CCG3hjj3rv+Rmp8kMf2xE/6Z1WTzpJH+eP5Wp8/neZ/rv4f9ZR1ICeGPy96J8+6nyWEckbtVONJvLd3mkk/eVZkhkj3/vpPu0dQK3hGGP+w7fckf8Ay0/9Dq/PCv2x9iR7NtYnhxG/stE86SP99J/q/wDfrVn/AHdw6b5Pu0ohAZfbY5IndP8AlstX5Ej8usee2aSRN/mbN1aslmv3H8ytCwhWP7Gj1Qsdv/CQax/uxP8A+OVNBYRyW8X+sqG1sIf+Eg1NHST/AFcb/wDfVR1M5HJfHCHy/C+j3b/u4bPVraV5I/vom+u/k/f277H+9H/rI/8AcrK8TeG7PxBodxpUqfubpWR5K5X4X6xJJHd+F9b/AHevaXuR45P+W0X8D1ZoeP8AgDStYg0/xBpUthJJNq0zWsUd39yFGf53r6f8M6VH4f0e30zzpJEtY44kkk+++1KNNsLee3SV4Y5Haodc1jT/AAzp97d3qRxpFt2R/wAbu33NlAGDqt59u+LGj2n/ACxsLOWV5P8Abeunvtslu6b4/u1xnh/w3Ja3mmXuoJ/p+pTO9xB/cRk+RP8AgNdhfabbx2b7IY4/lZ6z5iCzYuscmx3/AIahsXWP7Qm+P/WNUNjZr5e/ZH8y/wCsqbTbaGOS4/cx/wCsrQsJ5o/tkXz1T8TyR/2Wj7/u3ET/APfL1cnhj+2RfuY40qn4qto4/D9w+xPl2un/AAF6iREvgNvzo/ub6htZo/s/zvH/ABVNHDH/AM8Y6htYY5I3+SP7zVZYyO5jjuJX3x/d/wCetPmuY/MR/O/ipmyOO8f5P+WdTTwrHGn+r/1i1BBT1W5jk0vUPnj/ANXJ/wCgU/R7yOTR7JneP5reP/0CrM9tHJbyps+9G1U/DLrJ4f0/en/LFU/75o6i+2TW9zDHJKm+P71H2yGS4i+eOT5afAn+kSrRPD+8idKs0C+vI/s77P8AZrz3xpeW9r8SPBmoS/8AHtLHc2TyfwfOnyV6LdbY7N97x/drB8Y+D4/GnhuWy87yJvllt54/+WMq/coA56dG/wCFV63aWXmfafs9zFFHH/v1c+F95Z/8Ifo/lJHHts40eOOL7jr9+q3wr8W/aPtehaw6WniSzuJPtFrJ/Huf76Uy68Jax4O1iW68I3NrPZ3W6V9Hu/uI/wD0yej7JEfdidtfXMflo+yT71Q32tw6bp93LL5kaRRyO/8A3xXHyP401zYmoXmm+HrPcu/7JL5s70X19p/irWItEtLmOTR7Bo31C68377r9yFH/APQqANv4eu1r4Xsklhk86VWlf/gT1f0eby9U1hPJk2edG/8A30lXNNvLGCP57mCP+7H5tU7XWNPj8Qan/pkGxo4n/wBbUESLk8y+ZFvhk31DdPJJbu/kzx0yfxDp8lxF/p8GxW/560X3iTSZLd0/tKDYy/8APWrL5oGlazSSRp+5k+6tMguZPLdPJk+81VrfxVpMdun+nwfdqtaeKtLjklT7THJ81Ac0Bkjzf8JRKiQ/621X/wAdetjfJ9ni/cyfK1c3P4q03/hKLSVJv+XeRH+//fq/J4ss5I3TfJsXb/q4nqOYxjKJtzvNJv8A3NRW0c1xCr7OtUpPGGn/AMHnyf8AbJ6is/F1nFbquy6/8BnquYr2kTXjuVj2fJJHWbY3Mf2jVX3/AMUf/oFbEE0fyfP/AA1j2KRyf2w7+XJ+8/1f/AKZpL4zzrSn/wCKg1V/9qt6N6wfD8Mceqars+4sn+rrbjes5HVEJ6fGn7umSP8AcSmRu0fyO9MIk0kypR/yz30zZT4/3kdBoQxpTJP9Ynz0Sf3N9Ee2OSsgJoE/eb3rSj/d7KoQbfMfe9Pk1Kzg/wBbcwR/9ta1M5Gl8tVpJvL37ErNfxho8G9H1KD/AL+1Q/4TzR/MdEuZJH/6ZxPWfMZ80f5jp7V/MjRqf5KxyO+yubg8bafJH+6tr6f5v+Wds9EHippJH8rR9Sk/7ZUc0R80Te37JK5LTYWk8ca6/nSf6uJK0pNb1KST5NBnjT/ppKlc9o82rT+KNblSzgR28vfHJL/sUjCcvhOzgs/Mki3vJs+b/lrVmezhjjRE8z/v7WJHDr0kkW97GP72zy99WZNN1iSN5ZdVtY0/6Z21alm99mj+RNlVtNto/wB78kf+sqt/YmqfO769J/2zipmleHrqeN9+t3X+sb/V/wD7FZBzFyOOP/hLJfkj/wCPVP8A0Or98i/uvkj+9XN/8I23/CUSo+q30iNZr/y1+f79XJ/CtvHsd7m+k+Zf9ZcvQRGRqybfMojuY47dP9X92sqTwrpvmfOk8n/XSV6s2vhLR/s6ebZxyPt/5ab616l+8MTUreC8l3zJGku3/WS1m6xrGn/2xpX+nwfLJI/+t/g2VpR+G9Jjkl/0CD5dv/LKuY+JV5a+FdHtNQitoN8TSJFH5SfO7J8iVEjOXOeY2Og6T44+IHivW9buY59N8xrW3j/jR0/jR66qx8B+G5I0369r88P8Ef2mbZXbeB/Df/CP+D7S1lSOSby/Nlk8r77N9+ung/dxon+r+Wq5jQ4bw5beH/DMjvpWlTxu0jfvPKeV3/4HWxJrzSXEOzTb7f8A88/KrYj/AHkj/P8A8tKfJtkvIn3/ADqrVmHKc34j1K4k0+WVNHvti7f9Zs/v/wC/W9/beof9AS6+Vf8AWSbP/i6PEc0f9h3ab4/u1f8AOjk2fvo9m2q5SOUwbHUtSkjd00eSTdI3/LVKJL/VpLhETR/L+X/lpcpW3a3MMe9N/wDFRJNDJcI6eZ92rDlOekk1qS3dP7NgjRv+nn/7Cn/8Tzy/+Pa1+X/npK//AMRW9dTR/Z9n7z/v1TJLlf8App/36o6i5TkvDn9uR6emyGx/1kiPJJK/9+tX7Nr0l5v36b/q/wDb2U/wzcxx6fKmyT/j6k/8eetWCZZLhP3Mn3aUYjjEx5LDXPLSV7mxj2t/yzierklhr0nz/b7X/wABn/8Ai6v3z/6P9yT+GrMc3l/8sZKfKHKYlrpWuR26btVtY/8At2/+zqtHYaxJ4gvU/tiCN2hj/wBXbf8A2ddDBcyeWn7mT71UIJpI/FFx+5k/49Y//Q6OpEolafR9YjkT/idx/NIv/Lsn/wAXWJ4m+EUniq4ivZdbktNStf8Aj3vrS2SJ0/8AsK7O6mk8tH8n/lov/LWrMc0nl/6n/wAi0cpXKeb2vhv4pQW8UVv4k0eSFV+SeS2+ermnfDHUJNYTVdb8QyalqUXzxRxxJ5CP/sJXeWs032dE8miRpI7iX9z/AA1ZocrrGiahHqGiSvr0n/Hwyf8AHsn8SVpXXh7UJI387Xp9m3/V+UlP8QPJ5mlPsjj23kf/AKBW3O8kn/LGP7tZ8pEYmDHol5Jboia9dR/L/wAs4k/+IotfD03mXCf2xffeX549nz/+OVpQeZHH9yP7tMgmk+0SoiR/wvT5Q5TNn8PTR3EX/E4vpP8Avj/4iq3iPw83/CP3u/Ur6TZHv8uSVP4f+AVt3zzeZF8kfytVbWI7ifR71Nkf+pb/ANApcoSiEHh5ZI0d9S1LY8a/8vNEPh6OSN/9P1L5W2f8fNXNN86TT7R96fNHH/6BT7VJPMl2PH/rKfKLlKH/AAjFv9o/4+b75l/5+X30y68N2scf/Hzdfe/5+XrSk8yO4i3vH92mTpJ5bu7x0dR8sSn/AMIxZyR+V51183/Ty9UPDnhWzk0e0d3upHXcn/Hy/wDC/wDv10O2T/pnWb4ZSRNPlTzo/wB1cSp/4/S5TPl98I/CWmyXEqbJ/uq//Hy//wAXT5PCumx+V+5k+9s/eSv/APF1f8mb7Q/77/lnRdJN5afvv4lrTlNOWJTk8K6b5f8Ax7f+RX/+Log8K6T5af6HH/39etX7NJ5b/vqhtUm+zp++k/79UcocsTibr4XeH/FVxqsV1Z+RNb3X7q6t/wDXpuSP7j1j/wDCpde0e4SKy8SWt/D82yPU7b50/wB967zTYZP+Ek1hPOf51il/d/7SVpSQyfaIv30knzUGcYnmknwfvL759b1iOSFfv2umWyRI/wDwOu/0rwXoelW8Vvb6baxwqvyeZFVye2/dv/pMn3aLGHzLdH3ySPQacsQtdH0/y3/0ODesjfvPKSs3+zbOPxZ/x5wSbrPcn7pP4XrSjh8vzU86T71Zs9t5fijT/nk/ewyJ/wB8+XSkEolyeztY9n+jQb/MX/lmlXJEhjj/ANSn3f8AnklQ3VnHJH8/mb1/6a1N9mjk/wCen/f2mLlGWqQyW6fuY/u/88qI4Y47iXYkf8P/ACyosbOP7P8A8tPvNRHDH9sf5PvLQMraltj1TR5X8v8A1kkX/fSVpTv/AKO/+7WP4ghjj/s+XZ926VP++q0vJj+f5I6BR+IvxzL5abH/AIaqWs2zzRvT/WNTrWGOS3T5I/u1A1ugkkynO6gZJGkfl/OkdYNjCv2fVX/eR/vJE/d/7lXP+Ebjjj/dX91B/wBta577HqUGh6nLb3kcn7yT93JF/wCz1AHH+FZlguNTeV/M/ff6ytW68Raba/628gjrmPCujrqsd3LqcMm/zv8AV+b8j109roNja/6qzgSs5G0eeRmyeOdNkk/defP/ANc4npn/AAlUk/8Ax76PfSf9sq6qNFj+4nl0+SkPlmc3/bmtTx/utEkjT/p4lSiObxFJH/qbG0/66SvXQyJ5cdMjT93QXynPf2VrU+/zdVjT/rnFU3/CJNPs83Vb6fb/AM89kVb0aVNH2p8oezOej8Dab5jvL587/wDTSR6vx+D9Fj2bNNgk/wCukVaNSf8ALSnyi5YkMGlWMH+qs4I/+ucSVcjSOPZsSOOmRpU9SHJAljemRp5f8dEaU+R616mhWn/eVyXh+58vxh4gT7/+q/8AQK6q4rlfDj/8Vh4g+f8Aii/9ArI5a3xwOk87zLiL9zJV+R2+zv8AJJVbzl+0J88dP+2LJbujvHWvUsuedJ5fyJ/DVbSrmT7O6bI/9ZU0d9D5aJvjpljc28cb7P8Anoz0dRFOPzv+Esf/AFf/AB5/6v8A4HWlfed5af6v/WLVD7fHH4s+5J/x5sn/AI/XMeP/ABV4s028ii8P+G/7Ss2VXe6k/dbHrOJMTs5Ekkk+d46fBDJJbp++ryvSvid4ouvGFpoWoeG7WCaVd9x9nufNeFf9uvVIJpPs6bIZK06ljJIW+0S/vpP4a86+JTx+IPGHhTw07ySQyzfbbjy/4ET7ld5vuJ9Ql/c+WiqteUeH5pNV8cah4j2R+S2pfYrf/cRP/ZnoIkeuzwx+W/zyfdp8dvHJbp/u1Q864eN/9XHT43uvLR0eOjqUTQQx/vU2R/ep8nlx3EXyR7NtQwpJ5j/PJv3USQyeZF++ko6jKfiab/iT3b+TH5O379bHzfZ0dEj3+XWD4khaPR7tN8kn7v5K24IV+zxf6z7q0okDPD80k9m7yp5b+Y2+Or+//TE/ubazbGGOOSVP3nytRdJHHcRIifep9SyzdXn34k/eVck8vzPv1Qks44Ld/k/honRY/wDVQx76OpiU/DM0cdvdJvjj/wBKl/8AQ61fOj+0ffj+7XK+FYZo5NQeVI5IVupP3n+3W3HMseoW8SW3+tWjqEfgL99cx/Z/ken/AGmP+/HUN8i/Z3+RKfsXy/uR1ZYWt/H5f34/9ZWbHfx/8JZ8jx/Na7P/AB+jY33ETy/3lQ/6vxZbvs/5dZP/AEOo6kSNLUtVj+z/ACPHI+5dkdTWN+0lunm7I5v46hn/AHlXJP3ce+rLH2N1H9nT56POj+0Svv8A4araP50lu/mp8/mNs/3KswfvNQ/2NtAGb4mmj+z6e+/7t5F/6HW3JeQxxvvf+GsTxc/l6XFL+7+W4if/AMfq5PM3mVBAyO4WS3SqEH7vWJXTzPmjXfV/TX8y3+d/4mpn/MQ+f+7VllmeZfk/1nyNRfTLJpd2myT5o2/9AounVI0+f+KiSZfs8qI8f3WqCCHQ7zzND099kn+pj/8AQKswXP7y4+SSs3w5Mv8Awj+n/PH8sdWftMf2iX56AiTT3LfaIvkkonmkkjf9zJ92oXmjjkiff/FVmSaOTej/AN2rLDzpJP8AljJ92qHhyaSP+0E8n7t5J/49V+OaP5P92s3Q7mP+0NbTf/y9K/8A30lQRI0vtUn2hN6fJRPNJ9nd/Jpkjr9ot6fdTLJbun+z/wA8qssmkmmkj+RKrWtzJ5ezYm9Wb93U32lfLT5JPu1QsX/ePsST/Wb3oALVpo/GF3sSP97ZxP8A98vWlO9xHsd0j+9/z1rNkm8vxZbvsk+ezZP++Xjq/dTL9n/5afw0EQCea48t32R/xbKZYyXH2OL/AFf3aJLnzI/uSVTsb9Y7dIkSSTazUFl/995kv+rrN1h7j+2NHl3x72kkiT/gSVf87/SP9TJ8y1m+IJmj/syXZJ+6vI/3n+9SkZyNieO4kjf54/u/88qmjSTy0/fR/d/55VWnmk8t9kMm/a1Mtbm6jt0meGST5fnpjLNrDN++R5v+WlMkhkjuE/0n70f/ADyogmmkuJdkPyffSieab7RFvhoAyvE0Mn9jvK80n+jzRy+X/uvWrBDJ/wA9pKzfEck0+j3sXkx/6tnf/gNXNNuZLqzidEj2Mq0B9suWsLeX/rpKhurX98T50nIzT4Hm/e/JH9756iuoZmZCzx5KA0AW9k0cf345K5ie6kg8L3svkySI0kj/ALv/AH66eSZo4/nSSuS1S8jg8B3G9/L/ANZ/6HUdSzjPA+6TT7iX+BpmrpI65vwBuk0Pf/ekkrpI6UjeJNTqbG9Opmg2SinvUPl0dQDzKfG9GyijqA+N6fvWo6bN/q12UdQLkb1NHWPHDJBIjf6xGrV30ATUyTdTI3bzKe7+ZHR1Ap3T+Z8iPXK+H4Y/+Ek8QO6R71kjT/xyutjh++1cro8MknijxG6P5e2SP/0CsjkrfHA6eOGPzIv3MdTXSLHG2xI/u1TjRvMiTzpKszQ/fV3k+7WvUssxwxxxpv8A7tTWLx+W7/wbqpz6as9u0TvJ8y0/TbCNLfZ/ArUdQDf/AMVYn/XnJ/6HWb408baT4V0eW4vb+CN4vnSPzU3vtqa60+OfxB9nR5Ld5bOTZJH99H3/AMFeS+Mfh1o9j4k8L6IkP2+/v7xrq9urj77xJQETV+EnjzQ9SuLu4u7yOPxJq0nmy+fE8SbP4IUf/ZSvV47mOOz3O8f8VVo9N0+SN4ms7WSGJldI/KT5HX7mypo9slmif71AHPeJvEkfh/w/rGp7/nit22f7b/wVzfhzTV0Pw34UtJfMkmWRZZZP9tk+eofiU82ueINE8KWn7t7qSO9upP4Eiif+P/erp/EDrHeaV/1+L/6BUSCRqxzL9nfYkn3aLG5aONE8mSR6JLy3sbd980ce9ahsdYsYLdHlvII32/8APWrA0rWaR5JdkMn3qfIkn2iHfDWbB4q0uO4l/wBMg2M1F14t0v7RFtufM2/f8uKsiBniCGSfR9Q3pHs8lq2LFLr7Hbpvj2eWtc9rHi3TZNH1BIvPf923+rif/wCIq5a+KoY7O3/0a+k/dr/q7Z6COaJpWKTeZcPvj+9TJEmk1C3R5k/iqha+IW/e7NNvpHZt/wDqqZJrFx9sil/se637W/dybP8A4utepfumxfQzR27/AL77q/8APKmSWzfJL50kny1TutYvpLd0/sSePcv/AC0lT/4uoZNY1KT7mjybP+uqUdQDQ7ZpI9Q2PJ/x9SVq+S0dxF++k+7XMeH7/XJP7Q2aVH/x9N/rLn7nyVpSP4g+0JssLGPd/wA9Ln/7CjqRGRsXSf6O/wC+k+WjYscf+ukrHkm177O6fZtNj+X/AJ6P/wDEUSPr08aJ/wAS2Pd/v0BzFyxhjk373k+WSoZ7aP8A4Si0/wBZ/wAe7/8Ajr1mwWevSXjvFc2Mfzf88nons9aj8Sae73lrvaOREk8p9iUdSJSOhks45I5qsyQr5dY8+m65HG7/ANpWuxl/5ZxP/wDF1N/ZWuTxpv1iCP8A6523/wBnQVzGlpVtH5bo6fdamTxx2t4mxPkZWqhBYax87prEfyt/q/s3/wBnVaTStYnuE83WEj3bv9XFQPmH+JvL/seV0++rRv8A+P1qxpHPJs2fJXK+INH1KPR7vfrHmbF3vHJbJ86Vqx6PqX3/AO25PmX/AJ9ko6i5vfNWxht443+SP7zJTJEWTVETZ8nl1jwaPqHzomtzx/vG/wBXElH/AAj11HeI/wDbF1vZW/efJQPmkbd9t+zpsT+JamjSPy3+SsS68PXH2d3l1i+dF/5Z/J/8RRH4bZ5H36rqX/f1P/iKOoD/AAzCsmhxfJ91pE/75etKOGP7Z/2zrmPDmgrJp7xPf6lsW4kT93L/AHXrS/4RW3+2In2m++7/AM/L0dTOMpG3PHHHHFv/AOei1c8la5ufwrZxx7/Ou9+5f3kly9WY/B9j/wBPUn/by/8A8XVmnNI1bF4/sabE/hrNsdsfiDWP9pYn/wDHKhg8K6fJH8yT71b/AJ+X/h/4HVOPwrpcfii7ieGSRGtY5fLklf8Ahf8A36iQpc50M7r5kT74/wDWVZnmXy23vHv21j3XhXSY40f7NHG/mL/y1en/APCK6TH9ywgqvfH75fjvIfLTfNH92qEd/D/aEqedHsVlemWvhnR57dP9Dg/79U+Dw3pMdxLF9gtJPlV/3kSVIe+Q31/DH4g0p/Oj/wCWkT/c/iStK6v7WS3f/TII/wDtrWPrmiabHeaO6abB/wAfXleXHF/eStWTQdP+fZYWsfy/88ko6mcecfJrFjHGm+5gj/7a1m2OvafD5qPeQRp5jbJJJf71X7XRLH7Oj/YIN7L/AM8kpljptnHJcJ9jg+9/zyq/fNPfK0HiHTftH/H/AAfdZP8AW1T8SeJNLk0dnS/g3xSRy/8AfL1vT20PmRf6NB/36qn4gto5PD+obIY/ljZ/++aUjOXOMj8YaTJuf7ZBHUMPi7S47fZ9sTfWxYpH9nR9kfzRq9Fj5cckuxI4/wB5R74e+Zsfi3S47h/9Jk+aNf8AVxPUOpeMLP5PK8+TbJ/zyetid/8ATE/1fzRtRff8e7/7PzU/fD3zHuvE9rPbyqkN1J5sbI8ccT/xJUPh/wATxx6Xaf6HdSfu13yRxPXSRuvl/O9UPDMyx6f5TvH+6mki/wC+XoD3+chj8Q+XJK62GpSf9sqRtekkww02+6f88q2Y5ljuN++P5o6WaTe+d/arNOUlkmj8t33/AMNcZ4ieOP4dyv8A3o67C6dfsdw7pH8sbVwfjTy4/h2mz/nmtY9S5fGcx4DkX/hH4nT/AJ6Sf+h10iVzHg6/tdN8H2j3E0cG7d/rP9+rn/CZaTHv2XMcj/8ATOs5SL5onQ1LXLf8JnHJs8qwvp/+ucdWZPEOpSR/utBuv+2myjmiae0ib0lM/u1z32/XpPuabBBu/wCelzT9niST/ltpsCf9M99HMHMb3+rp8lYMelaxJ/rdbjj/AOudtTP+EYmk/wBbrF9In/TPZFRzGfNM6Tesf36hkvLWP/W3Mcf/AF0rEj8Gaf8A8tZrqfd/z0lenx+DNHjk/wCPCOT/AK6Ug98s3XirS7H5H1KD/v7R/wAJ5ocfyf2lHI+3/lnT7Xw3psEm9LC0j/7ZJWrBZwx/chjj/wCucVAe+Y8fjzS5P9V58/8A1zjen/8ACWwyfcsNSk/652z10MafvPuU+TdWvUOWZz3/AAkM0nyJo99J/wBskrm9D1K+k8QeI3i02SR2mj3RybN6fJXeSJXK+H3hj8WeJUd/+W0X/oFZGMo+/E0o5tY8yLZpsEf/AF0uaJH16SOV0trGNP8AppK//wATWlHMs8ibHq5dTR/Z3T/ZrXqb8pjyf8JBJGj+dpsf/fdTWsOtSRvvv7VPm/59n/8Ai6mkuP8AVRbJPmqzBM0cb7IZPvUdRcpg/wBm6xJ4ki36xHG7Wcmzy7ZP79UNV+Ht5deMItdl1uSR4rf7KkflJvTc/wA9bfnN/wAJhF+5k/485P3f/A60r6aby/8AU/xVnEmMYmP/AMIk0+/zdY1L5m/56p/8RTIPDEMdu8st/fbF3O/+kvs2LW3H53/TOuJ+JuvXmm+D5bS02fb9Sk+xW8f8e56fKXynPfDnRLfxNqmt+Jbh7qSG6k8rT/3j7/KR/wC//tV1WueFdLjk0p/s33ryNP3kr/c2Vf8AD+jt4f0+00+38uNLW3jiX/gNGuJJ5mmI7/8AL5HRIzlGJpR+HtJjj3ppsFWbXSrGO3TZYQfd/wCeSUeTNHG/76TZU0ELeWn76T7tWXyxGQJHHJLshjj/AOudMkTy7yJ/46Z5K/aJd7yU+S2j8yL/AFn3qOoDNVmb+y9Q2f8APFqfpsyyafab3+7DH/6BTNVsIf7Lu32f8s2p+m21vJpdpshj+aNaOpA+1mXzJd7x/eouplkuIv30fyt/z1ogtofMf5I/vU94Y45Ivkj+9R1KJp5o5Ld/30f3ahjmj8vZv/hq5Ikccbtspkf+r/4DR1MjH0OaP+0NV+f7twr/APjlas9yv2iJ0eR6zdD2x6praf8ATaP/ANArYkdY5Ivn/ipRCBTkmXy5fkkp8c0flo+yT7tXJP8AVv8APUMc0aRxfP8Aw1oWVoLxYLiX9zJ96qd9df8AE40p0hf/AJaI/wDwJK0o7lY/N3vWD4j1WO11DR3R0+WSTfJ/vJUSIkdDdTeZbunkyVNHcyeWmyGT7tVvtkclu7u8f3aINVh8tP30f3assI5pPMl/cybN1E803mRfuahjvIY5Jd7xxpup8l5DJJE+/wDioAp64kkmj3v7n/li1X7WaSS3ifyfkaNaraxcxyaPdIj/APLORP8Axyn6Vfx/2XaPv/5Zx/8AoFR1ICN5o9/yR/6ynyTTfaIt6Rx7qZBfxx3Eqfx/886ral5clxby/vN6s3+rqyy/dJNJbvvSPZt+eiBLj5P9X92mfbPMt/uSfdp8F59z9zJ92gDN8OQzRx6hFvj+W8k/8erS2TfaEeV4/u1Q0e5aPUNY/cyfNcK/l/7yVfmuZPtEX7mT71ECIBNDcfZ33TR/dq/HDN5afvo6rSTN5bp5Mn3afHcySRp+5/hoLCCGby3/AH0f3qoSJJH4ot983+ttW/8AHXq5HNJ+9/cyferNvppI/EGky+T96ORPLpSIkbE8Mnl73mkkp8kMnmf66Sq080kkbp5NWY5pvL3+THTLIbWGSSP/AF0n3qf9mb7R/rpPmjqG1mmj3o6R/epkjzfaIn/d/doAp+I4fLs7eXzpP3V1H/489bf2ZZP45K57xNNJ/Yd27+X8u2X/AL5et6N5PLifenzLR9sj7ZDBD5kafPJR5Mcdw295PmWmWryfOm+P7zJRJ532yJN8fzLQWTT20fyfPJ96obqwjns7iJ/M+aNqsz+ZHb/fjo8mb5H3x0AU9DhjutD0+V0+9Cu+rMFtC9xKmz7u16oeFfM/sOKLf/qpJIv++XrSjhk+0P8AP95aZEAktoY5In2fxVNJptvHG/7mP7tMuoZJNn76T/WVNJC3/PaSgB8cMPlxbET7tY+hw26XmqxOkfy3TbP+BJV+1hby03zSVm6bbf8AFUagm+T/AFcctUKRveTHHInyR08wx5PyR0yeH95F++k+9UzQLx88nSoGc9qXh61g0+4eKa6j2xt/q5XrifiVo91Y/D+J4tSeRNq/u7jZs+5XouseZHpd388cn7tq4n4tvNH4Ht0dPk2r+8j/ANyoDlOS8B6DYyeG7GW4s4JJpY97+ZXVQW0ce/ZDHH/1zrK8HJ5fhvTP+udbNZyOmMIEtP8A+WdMjepo6RoM+Wpo+1Eifu6dWoxsif7FM2U/fSUGfUX/AFdP3r5iVDI9EH+so6hzFnZUyU2ijqaEsdPqGP8A36fI/wC7o6gM+aSSub8NwrJ4s8S7/wDnpH/6BXTx/u9lcl4f8v8A4SzxLveSP94n+r/3KyOer8UTrfJjjki2J5f3qLuaPy3+f+Gofs0ckkW95JKL6zjjt3f+7WvUB8cKySI7/wB2mR30ce9HeP7zVDPtjjR0T+GobW2j8t96R/eo6gQyXkf/AAmFu++P/jzk/wDQ60ru8h+z/fjk+asrYv8AwmFumz/lzk/9Dq/dOv2d1/2lrIcQ/tKOSP8A5afNXnulP/wk3xAe7ZJJLDQ1kii/uPcN9/8A75St7xj4k/4RzR2lRPMvJW8q3j/vyt9yrPgfR4/Dnhe0tJX8yb5pbiT+/Kz/AD1r1EasE3+kSoiSfdqhrEzSXGlJ5Mn/AB9R1ftZo/tEr749lZusTR/aNP8An/5eo3oHI3pJpPn2Q0+Oab7OnyR/dqH7ZH86b/4arR6rHBbxRfvKOoizsm8yV9ke+idJJJIvnT71Edyskjunmfdo+0+X5XySfeo6gM1KGaTT7v8AfR7PJkpmjpNJp9kiTfJ5K1ZvpvM0+7RIZPmjaq2j3Mn9j2WyGT/UrR1ILkcLeZL++kokhkkki+eTZuojmkkkl2Q0PNJH5SPDH8snySUdSB88P7t/30n3aILNfLi+d/u/89afJ5nlvvSOmRpMkabPL+7R1AzdHs4/7Y1iL9596P8A8eSr91DHH5XyfxVQ017j/hINVT93v2xvV/UvtHlp88f3qOoFyS2j8t/92q0lnDJbxPsqaPzJI3fzo/u1C8Mklmn777y1ZYeTHJJL+5jkrK1K2j+2aY/kx/8AHxs/76StWO2k+0OnnSfdrK1WGSO40/8AfSfLeR/+PVEiJG9JbR+W+2GOqccMcex3SP7tWZIW8t900lU44Vkt02TSfd/5Z1ZZNJDHHI/yf3afPDHHcW838e7ZTPsaySS/O/3aPJX5N/mSfvNn/fVAFy+RXs7j/rm1VvD7r/Yenv8A9M1q5dWcf2eXeknzK1Ynh+2jk0Ox+T/lnUdSC/awxx6hdy/xsq1NdOv7r5/+WlU7GGGTULuJ0+7GtWb62jjjT5P+WlWWTSbfL+/TLd4/k+epvJjkj+5HVa3hjkjR9ke+gCnpU0ceuawm+P5mjf8A8crVnuY47iL5/wCKsqxhjj8SanFsT/j3jf8A9GVpTJH+6+RP9YtBEB8k0Plv88dMtbmP7Om9/urVmRF+f5KrWKf6Om9KCxn2mP7RL8/yNWbrFzHHqGjyo/8Ay8Mj/wC4yVsfLHcOn95azfEcyxx6Y/8AdvI6UjORZuL+P97Fsk+ZW/5ZVZjvI/s6P+8+7T/lkk+/H92n2s0f2OJ3eOmaFOO4XzJd6Sfepkky/aInRJPvU+O/h/tCVPOj+ZVdKZdX9vHsf7TH8si76AK2sSLPo+oReTJ80Mn/AKBU2j3LT6PaP5Lybo1ovtW0+S3lT7TB8ysv+tqHwzqWnp4f0zzb+CN4o1R45JU/hqOphze+X43aOSVNkn3qhkeT+0Ld0tpP4qZJr2lx3ErvfwbG2v8A62i68Q6XHJDKl5BJtb5/3tWXzFmOa8kjlSW28v8AuVcjeTy0+SSs2Pxho8m/ZeQfMtEHirS5I0/0yP5VpcwcxD4feSOPUIlhk/dXkn/AN1X5PtH2hPk8vctY+leJNNg1jWE+0x7GmSVP+BJVyfxVpsdxE6XPmbd3+riep6kRkX55rj7O6PbR/Lt/5a1ZT7Q//LGP/v7WJJ4q0+eOVEeST5W/5ZPVmPxbZ/Z/uTyP/wBM7Z6s05ok0CTSfJsj+81U4/OtfGESP5f+kWfyf8BenweIYf3uy2uvvb/9U9U7rXv+Kg0qX+zb75Y5Uf8A0Z/nqJGEpHVTwzeWjv5fy7amWGXt5eKyp/E7SRvs0q+j+X/lpFU6eKJNo2aVqW3/AK5VXMX7Qq+IJmj0e73p96PZ/wB9VxPxpvFj8L2kX7yN2/5Z/wC6ldt4jmjk0e4RH/u/+h1xPx0df+Eft03/AMVRE3KfhxGj8P6f8nl/uY60o0qto6+Xpdon/TGP/wBAq/HT6nUPjT94iU//AFdEaM8lHk+XJQMm3ij/AFdEdGzzKOoDP9ZHTKdTZKDMZIjeX9+mWvmeZ89PkdY6Za7f+B0Fmh/FSb2f7lQ+cvl/O8cdQvqtvB9+5gj/AOuktAGlBT5ErK/4SfSY4/3upWsf/bWq0njPRZPualBJ/wBc6zI5jej/AHlcf4fdv+Eo8Spsj2NJG/mf8Aq/H4w03/llNJJ83/LOJ657w/4hh/4STxBLFDPIks0ezy4n/hSiUjCrL34Hcx+Z5kSb4/vU/VXmjt3dHj+7WPJ4n/0iJ0sL75f+mVMvtevJI/k0e6+b/lpJsrQ05i46TSW6O7/w0+PdJbvsf+Ks2TUtU+4mjyR/L/y0lSobV9Wjj+Swg+aT/lpLR1ETRw/8VYnzyf8AHm3/AKHWJ44+IWg+C98WoXkkk3yu8cf710T/AG6xPGPjDVPB0l3qcsNr5y2vlW8ce/e7s/yVg+GfhdrmqW8Wq628EDyzea8Em/fK7f8APWs4kRkFr4hb4za5aS+HJo4LDS5Gd5Lv77uyff2f7Nbcnwx8RT3iXH/CVeZDu/1ckVb2lfDpdD1BNTsnsbCbbsf7JbfJ/wB8b66Gx0q+kt0/4nEkaf8ATOJKvmNOYxNDubrSvEiaJqrx3aXEe+1uo/49v39/+3W9riL9o0r5P+XyPfXJePNHuLHT01N9VnkmsJonWT5P4nrb1jQWk/syV9SvpN1xH/rJf7yVMjOR1sm3y32JVOBGk+z7Nn+rqtH4XtfL+ea6/wDAl6ZY+GNPkt/NdJ5P+2j/APxdWBqxvHHJKm/5/louplj8r544/mrNj8MaXJcSo9nHJ/10lf8A+LqaTw9pMez/AECP5mo6gTXWoW8dncI9zBH+7b/WSJVDR9bsYNDsvNvII3WNf+WtXJ/D2kxxy/6Ba/6tv+WVHhzTbGTw/ZP9jg+aFf3nlJR1I97mK0fiTS0uHf7ZB822i+8T6X8nlXMcm1v+WdaUdvbx3EqJbQR/Kv8Ayypl9D/qtnlxp5i746OpZTj8W6XJH8k0n/fp6I/Funxxp/r5P+uds/8A8RW3G/7v/gNQxv8A6Gib/Lo6kHJaV4nhk8QanKltfSblj2R/ZnrSvvFUflps03Ut+7/n2erOlP8A8VBd/wDXvH/6HV/VZPMt0+f/AJaLSiKMZmbH4k/d/utH1KT5f+eVMg8SXkkcSJoN9J/3x/8AF1t/aY4/vvRYvH9nR98dPqPlmYkevalJcSomg3X3f9XJKn/xdUNc1LWP+JfK+iSRp9qj/wBZcpXWxzRx3j73j/1dZXia8hkt7dPOj/4+I/3f/A6UomcozCe816SN9mjwf9tLmobF/EEFunlabYxp/wBfP/2Fbf2y3/v0yxuY/L+//FT5S+Uyo08SSXDv5NjH8v8Az8v/APEU+T/hIvLR/wDiWx/Mv+rletWOaOO43/vPmj/55UXVzHHH/wAtNm7/AJ5Uco+UzZ08RSfJ9p02N2/6ZPWV4csNck0uLbqVrHt3J/qn/v8A+/XSSTLJJv2SVQ8Mu39lonkyf66T/wBDpcocpWg0rWI7yX/icQRuy/8ALO2/+zpl9pWrSRon9t+Z+8Xf/oyfJW3Jct9o/wBTJ/q6ZPM0lv8A6mT+GnyhylOTRL6SP/kPT/8AfpKrWvh64+zp/wATi6+9/wAs9n/xFbf7yT/ljUMfnJH/AKn/AMiVXKHKYkegyf8ACUSp/at181mr/wAH8L/7taV14b/do/2/UpPmX/lr/wDYUb5I/FFv8kf72zkT/wAfrVn+0fZ3+SOp5QjEof8ACKw/x3+pf+BNMtfCtrJb/Pc3X3m/5eXrb864/uJVa1eZI23+X96q5Q5YmVJ4SsftH37qRNv/AC0uX/8Ai6oeI/CunwWcUqJP+6uI3/1r/wAT10k/mfaE/wBX8y1m+Jkk/wCEfuPnj+Vo3/75eo5QlGJN/wAIZpPmfPZ/+RX/APi6ZB4S0uS3d/sEe/5krVjhm/v0WttJ5b/vv4q05Q5YGbB4V0mOTb/ZsEn7v/lpT5/DGlxx/LpsEfzf88quSQyR3CfvpPu0TwyfZ3/fSSUcocsQ/sHTfMRP7NtY/wDtklZXhHSrOTR0R7ODfFJJF/qk/het7yZJNn76SsrwzZ/u72LzpI/KvJV/8fqOpny++XJLC1+0P/ocH+r/AOeVE9vbxxo/kx/eV6mkh8u4T/WfMv8ArPNpk9sv2d2/eVZfKXI7eH+CGOP/ALZVDpsKx26Jsj/66eVRHbL/ANNPmWiOzj8t0/efeoGUIEWPxZepsj/e26P/AN8vJVy+/gdP+elZslmsfiy3f/nrZsn/AAJXrVurCP7G77Pu7aIBAmjTy7d0osX/AOJfF/u0yO2jkj+dKZY2cPlumz7rMlAFmB1juJf+Wf3ap646x3mjy7/u3Wz/AL6SSrMkMP2jZs/5Z1m+JoY49Pt5dkcbxXUb/wDj9KQpG9cXKyRvveP7tOtZmkt42L9qrx20McmzZHUlmqNACUjzTNDG8RrHJp/3P+Wkf/odcB8ekjj0e12IkfzbPMrsPEHh6P7PCkV5dx7po0/1v+3Xnvx0026gt9MRL+S7haTY8dx/8XWcQ97nLkesafpun26S38Ef7tf9ZLTP+E20ePeqXLyf9c4nqax0HT4I0dLOD5V/55VqwW0cf3E8tP8ApnWZv75iQeObef8A1VhqT/8AXO2erP8AwlV5J8kXh6+k/wCumyt6P93T46rlI5ZnPR63rjyfutB8tP8AppKlPkvPE0kf7rTbGNP+mlzW7UklWHKcx5PiKT782mwf9c4vNo/srWJ/9brEcf8A1ztq3pKP9XUcocpzcfhi6kkd7jW76T/rnsoj8GWvmb5by+k3f89Ll66H/V0/5ZKkOWJjx+BdF+/LbSSf9dJXqaPwfocf3NKtf+2lasfap/4qrlL9nEpQaJpsH+qsLWP/AK5xJV+O2hjk/dQxp/1zpkdTJ/rKsvlgP2Rx/wAFcl4V/wCRg8Uf9fUf/jyV1slcl4Rhjk8QeKN6eY/2qP8A9ArI4qvxxOnfy47iL/gVMuvJjjeppIY47iL5I/m3Uy+hjjjfYkf3a1Oohkmhjj+/VP7ZDHH883ybmq5Ikflp8kdcr441JrHw+9vb/u7y8m+y28n9zd9//vlKOoHGaVqVj8QvjBcS7PP03w5Dst/L+49wz/8Astei+LvFVn4Z8P3Gq3aSR21vtlf91XB/AjTYbH7XdxJ5aX6yOn+4s2xKv/FuaPXPEHhrwo6SSW15J9quo/4HRfuUdSImx4D+Iq+MbP59KurB5Y2lijuP40/2K62xmkgs0TyZJK57Sry11LxY9paQxx2ejWvleZH9xHb+BP8AdSt6TVbXS9PeW4mSOGJWd/8AgNHUs5X4lTSR+F9Q3w/I3lp/309bGsfaI49KTZHsW4j2VzHj/Uo9Yk0LTE/d/b7yKV4/40iT53310nirVbO1s7KWWaOOGK6WV5JP4EWlIiRtzzXEe/Zspli8kdnF88f3a8N8Qax488QSah4rstSk0XQbNv8ARbX/AJ+Yl++71618PfELeIPB+lahLDJ50sbO/l0xG9awzPcS/vo/u/6upp0kj/j/AIqI7ny7iXYkkny1DfXMkex/Jk+9R1ALpJI43RJpN7K1Q+GYWk8N2X76T/V0+B5p7eWX7M+/5tnmVW8OTTf2HaIkMexVajqQXI7bzLh980n3aL62/dp88n3qhkvJI7h/3P8AD/rKZJeTTx/JDH96jqWaX2CP597yUyCzjkj+dJKJJpo/+edQ2v2yS3+V4/vUdTEpwWEcfiy42p8jWqu//fdXNSs45LfZsj+8tU40uP8AhKHTfHG7Wf8A7PV+SG4+z/PNH96lEIDJNKWeRPkjjSrljDHJb/cj+81M8maSP/XeXVOxhmj/AOW0knzVoWX5/LjuH2JH/q6ytc3f2PvdI4/3if8AodX5LaSS42edJ861T8TWDf2PK/nSfK0f7v8A4HUSIl8Bt/u/4aZYuvlv8n8VU7qHy40+eSSq2lP5lw9vKkkb7t9WWbG9Y7hP9paLp18uq0ltH9oT/WfdqtfWy+WyIlAGrG8fmffrH8Muv2O4+f7t1J/6HV+xs1k/1qVm+G7aP/iYJ5P3bySoINKSZftCPvj+7Va+m8uPejx0XUMcd5FshSrk8Mcdu/yR/dqyx8c0fyfPUMc0Mcb/AD/xVZtEWSNPkojVf3vyfxUAY91eRx+INMff/wAsZUetWfUI3t32P/DVPVfLj1zR3/66J/45Wk//AB7v/u0EQGR3KyRo/wC8+7RBcr+92JJ96po3Xy03v/DTI5l8yX/eoLKepXEknlbEkjqnrE0knhu+R0kkfyWrSvnjk8r5/wCKjUfLfS7tN8f+pkT/AMcpSIkPtbmSS3ifZJ80a0yC5kjklXZJ96maPNHJo9k7vH/q4/8A0CnxzL5ku146ZYz7fJJeJF5Mkf8A00qzI80kb/uf4arR39vHJEjvHvWStKe5h8t/nj+7QAyCaTy0fZ/DWPoc00eqawmyP/j483/vpK1YLyGO3i3v5b7f9XWDa3McfiDWE/gby3/8coM5G3I8klxE+yOnyfaJLd/kj+7VOO6jjkTZ/C1WZL9Y43+SSgYRvcfJseOiP7RJJL88f3qrWt+3yJsk+7/6DU0F439oSxPDJv2/JQBT1JLqPXNHl3x790kX/fSVtzwzfZ3/AH0f3ax/EFy0cmlS+TJ+6vI//Hkkrb+0yfPstpKIBAhjSSSNH86P7tMtUuJJJUe5+7JRHcySW6bIZJPlqn9pvI9QfZbSeTQBfkhm+0RP538NZvia2kk8P3e+aTfFH5v/AHzWlPNN+6/0b+Kq2sPcSafdxeT96ORP9bVikPgs5JLhLj7TJ8yrWnb2rbT++f71Y3h+5uL7S7KVIY/mhWtndMjONkf3v+etQMxtYST/AEJP3fzXEdedfGl5pJNKidI40ab5PLr0LWLzzLjT02Sf8fCu9edfGK/WTWNHiRPn8xajqbGxHVyNKpx1cj3UdTcmj/1lSfxVHGlP2UdRh/yzokok/wBXUL0dTPqMkpm5afJ/q/kqGjqHUf5lFFPo6gS0sdR1JHR1NCaOpvmpkbrHRG/mUAP/ANXXJeEUkk8QeKHR/L/0xf8A0Cut2eZXH+EZmj1zxRshkk/07/WR/wCylZHJV+OB088Mn2iL99JUN1DJ5b/vpPu0SXMklxF+5k/ip99NJ9nd/J/hrXqWQyWzfJ8715v44mjsdYtLSJJL+/8ALuZUtY/vptT5N9dhJrd5qsj2mlQx/LtRr7+BP7+z/bqh/wAIMsln/o7+RfrJJL9qk++7snz7/wDYajlH8Zg/BnSvL0vRJZbnz0l0vekf8CfPXN+PE1C6+NFpZWXl6S91Y/Ykvrj+5v8An8pP79bHwTmuo44tMlePztLjubJ4/wCBNs1dV8QvA3/CXW9lcfb/ALBqVhN5trdRxfcdqOoRNvwz4Y0/wzo8VlbpvSLc7zyffd2+/veubgm/4TjxAkVukcmg6XJvuJ/4LuVfuIn+wv8AFTJ/BnibxBbpZar4n8jTf+Wv9mReVPN/vv8A3KoarM3l2ngfwo/kTMuy4kj+5Yxfx/8AA2o6l9TV8K3K+KvHmq67s/0Cwj/s+yk/gd9/750qb4zWFxqvgN7eyh8+5a4idI/76K9beh+H7fR7e30+0eSO2t4VRKf4gs447e0ffJ/x+R/+h0dSJHm/jHVvFXi7wPqFlaaDJ4e023s2+1T3f33RU+5ElehfDKZZPh34flR49jWaf+gVNdfYfEEet6ZC8m+3ja3lk/g3slc38D3jvvh3p6ypHvikkt3/AOAvR1EehRzLHcP8/wDDVbVZl8tPnj/1lPjto3uPufJ5dU9Vhjj+zukMf+uWjqBpSTRxxum+OP5ayvDlzHHodujvH/y0/wDQ62JIY/n/AHMdZXhnb/Y8XyJ/rJP/AEOjqQXHubf7Q774/wDV1WjuYZI/k/vVNGnn3Du/3NtTSJHHG+3y9itR1IIZJoXk/wCWklM0p1gt3/1kibmer8k0ckeyobGbzLfe7/8ALRkqyzNkvF/4SyL9zJ/x6sv/AI/Vy61Jo7f5IZKrTzRx+KLf5/8Al1k/9Dp+qzLHHv3x76ziRAfY39w8jpLbSR/3KswPJ5b/ALmT/WUyO/tZJE82aOOiPVbOON995BH+8/5aVoWWZHk+2RfufvrVbxM839h3H7n7q/PTJ9e0+OSL/TIP+/tU/EHirS/7Du0+3wec0fyRx1HUiUjVkS4kjR/Jj+7/AM9aZYpN8z7I9+6q0fi3SY7eJ3v4/urVa18Yaakkr+d95v8AnlQBsfvvtEW7y6L7zvs7/wCr3qtY8/jCzkuInTz5P+ucb/8AxFPk8SR3Eb7IbrY3/Ts9AG3a/aJo97zR/drK0O2m+0aqiTf8vTb/APviiDxJ5EaIlhqUn/btWbofiGaTUNY2aVfSfvlf/Vf7FHUJSNu6tpo7iJ/O+erMiSSW7pLNJ92sq+166kkt9uj3Uf7z/lps/wDi6ZfaxqUlu/laPPG//PSSVNlHMHMbFjD5kafvpKm+zfvJfnkrEsb/AFaO3iSLSo5E2/6yS5Spo7zWpJH2abBH/wBdLmq5g5hmq2yx6ho7u8j7pmT95/uVsSWa/P8A6z+KuY1SbXPM0x3trWP/AEhf+Wv+xWr/AMT6Tf8AJYxp/wADqeYzjI1bW2hkjT/WfdqGOztZLyVHTzKp2Ntr0lvE6TWMf/XTfvpkdhr32yV3vLGN9q/8sn/+LquY05i/fQ28ccX7n/lpVmewt5LeWLZHsaOsq60rWJI036lB8si/6uL/AOzp8mlatJv/AOJrHv2sn/Hsn/xdMXMTeH4Y5ND093SOT92tWY4YY7yX5I/u/wDPKub8P6VfSeH7f/icSR7VZP8AVJ/C9X49EuI7z/kMT7/L/wBiiA4yNuOFfkfZH/rFq5Oi+X9yueuvD0kcf/IVvpPm/wBj/wCIp8nhvzPv6lqUn/bWgOaRpQOv2dP9XWbG/l+KL1P4JbWN/wDvl5KrQeGF8z57m6+Rm/5avVCTwrax+LIld7rZLZs/+tf76vQRKR0O/wDi3/8ALSr+9Y/n31iT+FdPjt3fyZJP+ukr/wDxdTSeD9Jk2f6H/wCRXo98r3wjmjj2Pvj3qzVZj1KGTUE2TR7Fjqta+FdL+f8A0CD5JP8AlpU39g6bHcIiabB8ytQR75W8ValZx6WjvcwRvFcRSp/wF62P7b0+T53vIP8Av6lc94m0Gxj8P6g8VnBG6xs/7uL+7WxY6bYyW9u32OD5o1/5ZJUdQ97nGQeItLjj2PfwRvub/lrVafxPpclx8l/B92r8Gm2vlyoltB/rP+eVEdhDBcI6W0fzK3+rqw98rXXirS/s6f6ZB8si0+TxVo8nyfbI5K0rq2j+zv8AuY/u1Zj2+ZQXyyOP8K+KtLj0e333Pluu5f4/4XrTu/F2lNKCJnxtH/LJ6seHHWP+0Lf+OK8k/d/71al5F5jo/qgNKJjGMzF1V1k1TTP+uzP/AOOV5j8XpvM8YaJE7/dmWvTr5Fk1zTE/66P/AN8pXlHxQ8v/AIWRo6f6vc0b1J2nVJVmOs37fbwffuYI/wDrpTP+Eq0eDf5upQfL/wBNaDfnjA24/wB5JU0b1zf/AAnmgx/cv45P+ue+mR/ELRfM/dTTyf8AXOJ6OpHtInSSbqhk/eVgyeNreT/VWGpSf9uz1DJ4tuJP9VoOpSf9dNn/AMXS5iOaJ0MiVDWJ/besSb/K0GT5f+WklylQyXniSTZ5VhYwf9dJf/sanmDmOhp8dcxHD4mk+/c6bB/1zieobrSfE3mQ+VrEGzd8/l233E/2KsPaHYR7amR/Lrkv+Eb1CbY8viG+k/65xJU0fg2GT/W6rqs//bzWQc0/5Tqt6/xvT45o4/465iPwNp8n+tmvpP8ArpcvVmDwNocf/Ln5n/XSV/8A4ugXNM3pL+GCP55o4/8ArpXJeDtVs4NQ8Ru9zB+9vmdPM/3K2P8AhF9Jj2bNNg/7aVyvhubSdHk13zbaCR/7QZLeCOL53fZ/AlPl5jCfxxOwuvEOl2OyWW/gjhiVt8nm1z11r1v4qjl828+waV/BHH/r5v8Af/2Kuab4ea+1C31DVbaBHXc8VrH9yL/7OuhnhX7O/lJH/wB+q0NPiMqPW9J023it4po44VX5I44n2JRB4ks/n8rz5Pm3/u4nrbRFjj+5UNvtjjf/AK6NQWeJ6xqn/CufiZd67aW11Po+pR+bqUflP+5f++ldPqXx48Jx2aS/bJPJauw+WTxhsf8AeJ9hb93/AMDrg/H+g6LrHiTR/DkWlWMaS/6bdSRxJvRFf5Pn/wBqshxMrUvjBrHjG4/srw1pU9gkrb31K8/dfuv+mSV2fgvR5PCul+VaaVJI8snm3F1cSpvuH/23rY1zwlpfibQ30q7h8uFduySP78Lr9yuM8M+ML7wPqieHPFc3mWzSbNP1iT7kyf8ATX/brXqEjuY7jWJLjclhaxvt/wCWktU/EH9tfY7R3hsY0+1Rf8tX/v1vRzR/aN++PZ5dU/E80f8AZ8Xz/wDLxF/6HWcomconm/iCz8beAPGGq63pVhBrVhqi77i1t9/7l1rofhX4V1zR/CduktzBaPcTSXTwSRfOju9ei+dH5n/LSmWtyv2fYiSbNzVoUZqWGsSXGx9Sjj+X/lnFTL7RNQkt/wB7qvmfN/zyStiN/MuPuSf6un3ztHbu+yRPu/vJKOpPumPHo955eyXWJ43/AIPL2VQ8OaI0mn/8hW+2LJIn7uVP79VtN+Kmg+IPEFxo9o8kk1uvzz/J5Dv/AHEf+/Wr4Zmkjs7hfJ/5epP/AEOiUeUz5Rn/AAjfmXib7++k+X/nrU0nhWGON/8ASb7/AL+vV/fNJcJvh/hp873EkfzpHS5R8pTk8K2Mkfz+fJ/10uXqtH4bsfLfekknzf8APV//AIutjfcfJ/q46hgSb59/l/eq+UOWJzcnh7S4/FFon2OOTdG+/wAyV61b7wxpvl/JZwb6hvoZJPEGlfPHvZZP/QK1Z933POj2KtRGIRiPg8PaXHGn+gWv3f8AnlVax0HT5JJf9Atdit/zySr/AM0kabH/AIaLGFv3vz/xVoHLEJNKsY7hNlnBH/2ySq3iCwt/7Du9kMEe2NquSQyfaIt80n3qraxbNJpd3++k/wBW1ASiTWMMclnaPsj+aNf/AECiD93JKmz+Kq2mp5ml2r75P9WtEEMclxKiPJQWTX26SS3+f+KrkjLJbum/+GqE8KxyJ/rPvf8APWppLaOSOgCaB1+zxfP/AA1laVMseuawu/8A5aRv/wCOVpWsMf2dG2Vm6bZxx+JNV+RPmjjf/vpKjqRIs6lMsdxb/P8A8tKfJNHP/HRfWC+ZE6JH/rKfHYLHI7ukeyrLC1uY/s6b3T5VojmjS4l3vRY+XJGnyR1NHt+0P8n8NAGVrk0fl6f8/wB28jetv7ZHJH9+srxMyx6fbv8Au/lvIv8A0Ot6P+N6DOPxFOxvI47dE/eb6m+0r9sf5JN/l0Wr/u6PO/0z7/8AyzoNBl9N+7/1Mn3lp/nN/BDJRdP+7fY9Pkm2SffoAxPDLyf2WybJJNs0if8Aj9X45pI7xE8n/lnVPwzNHHZ3CO//AC+Sqn/fdaW+P7ZE+/8AhogRH4AneTy3/c1NG8n9yOmXU0Mlu3zx/dqb7fH8n76gsrQJNJv+SP71ULvzI/FGmNsj+a3lT/0XV+11K3kku0R/+WlZupXkf/CQaJL/AAK0qf8AfSUpGcjbuoZPs77/AC/u0+PzpI02PHUMl/HJG/8ArPlojv4/LT5JKYwjhkkklTzv4qhvkmjkt087+KrMdz5dxL8klU9SvG8y3/cyJ+8oAfrkLSaXexb/ADN0Mn/oFP0eFpNPtH8770cb0XU0klvcRJDJ80bJVbwrfyT6HabLaT5Y1RPM/wBmgPtmra237y4R5pPvU+ezXzLd3eT71Pjmkjkl/c/w0y+mm8uHZDHJ+8oAJ4V8t03yfdotYY5I0ffJv20yR7jy32Qx/wAVQ2r3XlpsSONFoAraHbRx6xrCfvPlmjdP+BJWm0cOfm61k2L3EfijUE/d/v4Yn/8ARlXo7GSTe2+PliaURROfurC6/wCEk09E1Kf/AFcjP+6SvJfH+lXE/wAWNPt7uaO7hZfn/wCWT/Klezb5JPFEXyfdt5P/AB568o8XXMk/xktN6eXtjb/0CsDTlNuDwlo8ez/iWwSf9dK0oNB02D7lhax/9skqaGrMf+rNVym/LCIyO2hj+RIY4/8ArnU3+rojSjYKsOoyembF/uU96NlHUOoz5aZ5dWY0rifixr154c8Lvd6e8cczTLE8kn8G6rjHnnyGcpfaOnk8umb/ADJPkrx+18B6xfWcUsqQSTSxrK88lzNv+auz+HugyaHp8qS/ao5nk+eO4leVE2/3H/uNW1SlCH2gjKUzs49tTR1DU0dcxoWf9XT46b/FWHrmvSQSJZaekdxqUv3I/wCBE/vvSjEOpZ1jW/suy3t0ku7+X/VWsf8An7lc38OdHb+0Ndvb145L9ryRHkj+4nyfwV0Oj6Cunb5ZZpJ7yX/W3Un33/8AsKyvAczSSeINieZ/xNJP/QKJHLV+OJ0nkt9oT55Pu0+eH92/zyUyR5Pti74Y4/lb/lrRO8j2/wByn1NizHCscf35KZHbRyRv8n8VP/ef9M6ZH50kfyPH96jqBlSLbweLHll/dpFYsz/3E2vXK+ALNtYk1jxLcQ+X9vutlr/17p9ymfEKa+n8SWmiWjp9s1m3+z+Z/ci3/PXbQab/AGbp8VpE8ccMUccSRx/3FpRIiX4IY/n+Ss3WPCun+LvD8ulanbRyW0u7/fR/9itKOFvMdPOp8ELSR/66T71PqWeXeHNY1L4X+ILTw54om+16VcL5Wm6xJ/44kr16L4m2/wBj70/57RP/AOP1D4m8JWPiazmstThkntpY/wDgaf7j15ppusXnhHzfBmuzTyTRTRvpV9J/y8Rb/kR/9taOoHtn+s376LH/AFf/AAJqI7ZfM+/JRptrHHG/+s/1jUdQLOxY7hNz/wANeY/Hrx43h/w+mj2Tyf2rqX7pPL++iV6F4g1Kz8OWcup3b+RbW8MkrySf7NeLeALCbxjqmofEPXbby7aKOR9PtZP4EWu3Dw+3IiQ/wH4A0fwzHaWV1DHf63LG108n+thtPn/9Dr0vww8cdvep+7/4/JK+cvhI+seKvFniDVdMv47CGKRpYrW4+5Nuf7j1734ZuVk+1pceXHM03zx/7bJWeK96ZEYnSedH9sR99Pupo5Ld/npn7v7RF8n96nzovlv/ALtYwLCO5j8tKZb3Mf71P3n3qmjdfLT/AHahgk/eSp/tUAUNSmX+3NKfZJ/y0T/xytWR1kj+5JWbqrrHrGj/APXaT/0CtiR18t/n/hoIgMjm/dp8kn3aZHNJHJL+5kqaCZfLT56ZHNH5kvzx0FhdTSeZC/kyfeqnqrzSafcJ5P8AyzarN1cx+ZEm/wDipl9cRx28qPNH/q2oAoaVcyf2PaPs/wCWa1ctXkj810REdqzdDuYf+EftPn/5Z1pQXMP39/8ADQRH4CG+mmj2Psj+9U0E1xPvd/3dMuryPy1+f+KpoJl/uSUFhH5kcafPVOxSSTxRffP963V6uRzeXsfZJIlU4Llo/FEreTJ81qqf98vUdSJGrdQyeWn77+Kn+S0kbp51Q3Vy32f/AFMn3qZ9pmk3okMm+rLHwQt9n+R5PlaiOH/SPvyfdqtps00cbxPD/FVmN5vtET+T/DQBQ8R2y/2O775Plkjf/wAfre+zR/8ATSsTxH50mh3b7Pu7X/8AH62I/tUmz5I/u0fbI+2Q2sMce9P3n+samQWcceqJ88kn7ui1+0Rxv8kf+spkDzf2hFveOP5WoLL89tDHbu7p92h7eGTZ8n8NE8Nx9nffNH93/lnVOf7RHGnlTR0AU/D8MPmXqJDH8t5JW3JDHHcW7okfyrXK6V51rqGoRPN8/wBq+f8A29yJXTzpJHJFvmk+ZqIEQHzwx+W6bP4aI9vlo6f3aZJbSSRv++k+7VbyfMt03zSfd/560Flmxj/eXDun3mqnrn7vUNEf/p62/wDfSVZsbNY96b5KoeJoY4/7MlZ5P+PyNG/e/wB6lIiRtz/6t0/2azbFJI5Lf5/vLVySwhk3/PJ81U7GGPzE3pJ8u6mWaUbr9of5/wCFah1J1j8qXfHsWRf+WtEkMP2x96fejqHVbOGS3T9zH/rFoILP2yP7m/71VvB00f8AYdqjvHvXcn/fL1f+x28f3IY46p+C4Y/7H+dE3rcSp/qv9ul9sPtmr9pj+0P88ezbVbUbmGSNPnj/ANYtTTov9oRbEj2eXTL5F+zu70wIf7Sjjkf5/wCKmWOpQyR/f+6zVNO8MdvVaxmj8t0/6aUAUPtiweLF/wBZ+9s9n/fL1s/2hHGTuikVm5xWZdP/AMVJpT/9MZU/9F11Kxxyjdv60okdTjY7m3j8UPvf7tqv/fe+vKNYmjn+Mjyo/mIscmySP/cr1q1/5GS9+T7tvGv/AI/XkupeXJ8ZL3/Zhb/V1PU2idtav+7q5G9U4H/d1Zj7UHWG9o6N/wC8plP/ANZQZ9Rkn7zZT/m8umSbadR1DqFcP8Xoft3heK3f7kt9bI//AH3XbSPXE/FuFpPA93d7/wDjzkjuv++Xqo+7MzOnjh8vYifcVakrgo/jZofmW/7m++xyssX9pfZn8hHb++9dzA6/fpyjymnMXI6m31DvWSsTUtYuL64fTNHf99/y8XX8Fujf+z1nGIFnUtbkkuP7P0z95f7fnkk+5Cn+3VzQ9Ej0e3dEeSSaX55Z5Pvu9GjaVDpVukVun+28kn33f/brV/1daSkAz/lp9yuY8BvHH/wkG9/Lf+1JK6eP55K5Lwi62ul+ILt0j+XUJX/1X8O+sJfGYS+OBzHxGtr7xx8QNE8OW959gsLeP+0Jbq3/ANf9/wDgrpLXStS0Pf5XiGfWrOVl3wX/AN9P9x6x/E1h4mg+JCXvh+2tZIbzTY7d7q7+5b7X+enweIfEXhnxBaaZ4oexu7DUm8q11K0/dbJV/gdK06mnMei/aV+T/WVDa3i/Z9+yT7zVZ+WSqd9qselaPd3crx+TaxySv/wGjqI4bwrqS+IPjB4lu/JkkSwhWyt/9jb9+vQrq5by0TyZPvLXDfDWw/s24t2uPLjub+1kvbjzP77zV211eW8cf+ujo6kE0byRyf6mTZU1i0j2/wDqf4qp/wBq6fHJ89/B/wB/Uplr4h01I3338EfzN/y1o6hzF/fN9o/1Mf3a5L4qeG/+Em8HyxOkcd5byLLa3X8cMqvW9J4n0v7Qj/b4Nm3/AJZ1m+JvE+m/8I/d7LmOTdt/9Do6kSlyGV4D8eX094/hrxKkFh4ktVVE8yX5LtP76V6FY/aP+mf3q4bxpZ+GfHlnEl3NJHeQfPb30ET74X/2H2Vz3hH4qXHhm4fR/FqSb/M2W+qxxPsu0/8Ai6OpY/8Aahj1i68B26WX7yFLhWuI4/7leY33xF8ZX3geXT4tV8M2Fgtns8uOX9+iKn9z+/X0JJ4ttZLhfKhupE2/88nrmPE2leG77T9Ql/4RXz7nyZNkn2H/AGK6oV48vIQfG3hW8vpNQRIr+SwRmV3njlfYn+/X1F8L/hjDBqEusXeqyalfxSLsk/g3sleS/AHw/H4g82K7tp57OwuPNltbf77syfJvf+4tezfD2abw/wCJPEGj2lhdSWayRypaySpvh3JVVKv2A+2elx2cnmRb5nkqzNZ/u3/fSVjyalqkkkWzR5I/m/5aSpU0l5rEkbp/ZUf/AIEpXHzAaUdsrxp88n3aILaOSSVKyoLnXJI0RLC1+7/y0lojfXPMl2Q2sf8A10legOYfqtjDHqGlfJJ/rtn/AI5WxJZw+W/yVzGsQ619o0x5XsY/9IVE+/8A3K2JLbWpI/nvLGP/ALZPQZxkaVrbQyRp8lMjhh+0S/JWbaWetSW6f8TKCP8A7ZVDJYat9odP7VjR9v8ArI4qrmNOY1bpFj2f9dKfOi+W/wDq/u1j3WiX3lp5utzyfN/zySmSaJcSb0/tW6/8cqQ5i54c2/2HafJ/DVy1f/TJU/2a5vw54bkk0eJ31K6T5m/1cv8At1c/4RiOO8/4/L6T5f8AnrSjIIyNu+Ty40lf+9Vn5pJN/wDBWJdeFbOS33vNfSf9tXqz/wAIfp/8aTyf9dJHrQPfL8dysdv87x/erN+0xx+JE3vH81m3/LX/AG6fB4S02SP57bzPm/5aSvVC48MabH4ktE+xx7Gt5P8Ax16jqZyNu6v4Ut33TR0yS/tY/wDl8gj+WoZ9B0uO3f8A0CCnx6Ppv8FhB/36qvfNPfGWOt2ce93vII/3lTf8JDp/2hN9/B91qZBptn5kqJYQf6z/AJ5JVySwtY7iJEtoI/vf8skp++HvmV4g8SaXJ4fvU+2Qb/Lb/V1fg8W6X9ni2XMf3VpmrW0f9j6gnkx7PJk/9ArS03bJp9k6JH/q1/8AQKjqL3uYx4PFum+ZcfvpJPm/55PUP/CVWcl4kqefJ/2yf/4ituN/LkuE/wBqod/mXCPv/iqx++ZsnjBf3qPbXUibfkkjiepv+EhWS3i2abffd/55VpTp5kb0+1m/0eJ/9mgXLI5XTdVkk1jVXTSr6T95G/8A45WrdeIbrzIv+JPdR7W/5abP/i6msZlj8Uamm+P5o4n/APHKuXU0flp/10Ws4kRjMp/21qU8bomiT7P+mkqVWjvNWkt08rSvkX/prW9BNH8yO8fy0y1uYfs6I7x1oacsjHtb/WpLiXZpsH3f9XJLVDxFc65JZ2/m2drGi3kb/wCt/wBuuhjuYY7z5Hj/ANXWb4tuY5NDf5/nWSN0/wCAvQRKJZj/AOEikk+SHTY/+2r0yxh17y9nnWMfzN+8kjffWxBqUfl7N9MsbyPy3/1n3v8A0KjlK5THuLbXpLhPOvLWN9v/ACzifZU19pusSRu8uqwbP+eccX/2daT3kcl5F8kkjstPupvMt3/cv92lyk8pQ/snVvk36xH93/n2qn4c0TUPLvUTWJ4/KvHT93Gn399dDHeNJsfyZKzfDl40d5rCJbSf8fjP/wB9JHUcoSiF3oN19oi/4nd1v2t/cqnfeHppLeXfrF9J8v8Az1T/AOIrYvrib7Rb/uZPvNVad5pI3/c/w0csS+WJlR+FVk2PLf30ny/89afB4btfMlR3upPm/wCer1pWs1xJbp+5j+7/AM9aZG80d5cJsjo5YhywM3UfCWnx6poj7J9jTSRP+9f+JK6IeDtJZQTC/Tj96/8A8XWZrj3Cf2bL+7+W8j/8ercFxcLxvgq+Uw5YnO2Nssmuah/rP9TGleSweXJ8XNY+eSTbC2yvRbFNcj1jU386xk/1afx14zpNtear8TNeS9mktHVW/eWkv+3WMPhN4yPV43X5KmkmWP8AjjjrmP8AhD7N5EeW5vpP+uly9WY/BOi/x23mf9dJXpG3vm39vtY/v3Mcf/bWoZNe0+PfvvII/wDtqlUI/BOhx/8AMNg/7aVZj8K6PHJ8mlWv/fqgPfGSeKtJj+/qVr/39qGTx5ov3P7Sgk/651fk0rT4PuWEH/fpKfBYQx73SGOP/rnFWvUPfMr/AITnRZP+XmST/ppHE9UNV+IGjwafK9xbXU8P3PLktn2PursI0WP7iVg+MfDcfi7w/Lp7zSQO0iypJH/A6vSjEj3jmPF3iG1vvB+p2kuialHbS2sm+P7N8ifJVPwP4n1S+8J6P5WiXVx/o8aefJKnz7UrHk+Gnja6uJbS78W/a9KuF2PHJv37K7aT/in9PtNE0pPMuVjWJP8AYT+/XVKHu/ERHmmZV94k8QX1w+lafpUcdyy/PPJKmyFP/i6v6PYeItKs/s9vbabAn33kklfe7/7dbelaPHpVukSPJI/33kk++71sRotcxvymJBD4ok+/eabH/f8ALierMdh4ik/1usWsf/XO2rbj/wBWak/ioF7Iw49H1aT/AFutyf8AbO2SsHwPo80+n6rFLqU//H9Kj+Xs+eu22L/BXMeA5pI49YTZ5m3Upf3lZGMo+/E57Ur+38AXnla7rF9Bpu3Za33/ALJ9yqHjhNF8QeH9Cu9M1ufUn/ta12f6T/ef569F1LTYdY32l7YR3dtLGyPBP9ysrSvh7ovhmN5dP0S1tHaRXd/4616l8psSeFdP+fzftUn/AG8vXGeLvD2n32oaF4fihkk+2TSXFxJ5r/8AHun3/wCP+J69F33HyfIlcH4Khm1zxBrviB3j2eZ/Z9r/ALiff2f7DPR1L5YmxH4Y0v8A4Sx0Wwj2NY7/APx+tW68N6XHb70sIKrRpcf8Jg/zx/8AHj/7PWldQzfZ03zR/wAO/wDdUdTGMR8GiafHJ8lhB93/AJ5JT7WwtY43/wBDg+83/LKnxwzeY/76n2sMnl/66T71HUB/kx/aE2Qx/db/AJZ1Q8Tosfh+7+SP/V1c+zf6Qm+aT5VrN8T23l+H7uXzpPlj/wCetHUJfAbcf7v/AL5rE8QaDZ+KtLu9P1CHz4Wb/gaP/sPWrHbL5f35Pu1WsbNfn3vJ96jqanm9j4huvhXqFpo/iN5JNEZtllrEn8H+xLXpF1cw32nyuk0ckMsfySR/cdGqtrmg6frFulpe20d3Zy/I8En3HrzTUvt3wh1DfLDJf+DJfkSSP79j/wDYUdRmJ4R+BureH9Q1DVdH1j+yb9rhvs/mfvYHi/20rvPhz4buNK1jxBqeq6lHf6xcSRpLJH+6REVP4ErsNN+x32n2lxb+XPDLGsqSRy/I6VDodnHHrGtpsj/1kWz/AIElVzc8iC/PNHHJF88f3qJ7mOON03x/dp88MccifJH96iSGPy3+SOmBDaTR+Wvz/wANMjvI47iX5/4afAi+Wnyfw0+NFjuH/wBpaAM3XLxZP7P2fw3Ub1q/bF8t/wDWVm+IP3cdo/8Aduo//Q62N6+XQQQ2tz+7TYklQyXP+mP+5k+7Vy12/Z6rSOv2h/n/AIaCyG+uW8tP3Mn3qPOkk+5DT7po44/v/wAVP86P7/7v7tAGb4cmm/sfZ5P3ZJP/AEOtLfN9sT9zH92s3w5NHHZypvj+WaT/ANDrV86P7Qnz/wANZxIgTSPceW/yR1Nvmkj/AOWdQyXkflum+po7yP5Nj1oWMg+0fP8AOn3qzbrzo/Emn/PH80ciVpR3Mf73/WferK1K8WPXNKdPM/5af+gUpESNW6ST7O/76OmQJJ/z2/hp89z5kb/JJTI7n92j+TJJ8tUWEfmeY6ed/FU0kLeZF++kqnAkn2x3RJE2t88f9+rM80nyfuf4qAGalbefpd7F50n+rb/0CjR4fM0eyl86T5oV/wDQKfvmkt7hEtv4Wqn4cmuP+EfsdkMf+rWl9sguR2a/aJU3yf8Af2q11bL8nySSO0n/AKFVmP7RHcPshj+7T5/tHlp8kf3qCx8elRxx/P5nzLUMFhD5aPsq5I9x/sVTj+1eX8jxx/eoAoRwxx+KLiLZHsa1V/L/AOByVpTwx/Z9+yPZuWsSRJpPFG93j+a1+T/cV61ZEmjt/nmj+6r0QIgaUcMcf8EdMsUj8t/kj+VmpkcMn/PaobWGT97vmkk/eUFlyNFjvE+T+FqoeKk8zw/qGz+CPf8A98vVmO2k+0Rb5pJKra5pv/En1BPOnk/ct/46lKREjYjmX7Okv96Nap6bM0kkv/LNPMaq1jZ+fp9pK80nzRrTI7CGO4lR3k3/AC0yzVk/d3ET76szOv2d/wDdrE+zLHcQ/PJsZq2Pscflv5qUAPgmWSNPn/hrK0qZY9Y1tN//AC0jf/xyr8FhbyW8T7PM+X/WVzyQx/8ACWanEiR7PJif/wBGVBjIv31zH5iO7x/LJTPt/mSfI8exfv0y6to5I03pH/rKswQxx/IiR1ZsFreRx26JvSPbTIJo5NQb54/9XT7WOOOPZs+6zVfsUhjvN7pHHujZKCDK8TPH/Y/m7/MdbiJ/++XjrdW8tY8gdM1R8XbZPD97/sxq/wD3y9a0LKyk7O9Bk/iOU0q5X7Zqr/vNnmL/AOgV4z4ZmWfx54gl/wA/fr2bQ3X7Rqr/AMDXH/oKV4z4R2yeMPEcu/8A5aL/AOh1nE6InoUdTR/vKrW9T0+puWI0opkb0/8A1lHUBkieZs+eptixxpTKk/5Z0dQI5KhkeppKoaleR6VZy3Ev3Il/1f8Afo6gU9c1X+zbdEiT7ReStsij/vvRoej/ANmxu8r+feSt5ss8n8b1Do9hJJcPqt3/AMfkq7Ej/wCeKVs1UjMTZ+8qaOmU+p6mhZjo+X+OiP8A1Zojo6h1H/3PkrlfAc0cdvre949/9pS11W/+GuP8DoskesfJHJ/xMpaOpyT+OJ08d5H9sT54/wDV0+6uYfs7/P5nzLTI0X7Qnyfw1z3jTxzY+Gbfytkl3fy/ctbf7/8AwOjqbj/H/ixfD/hPULuL/j5ZVit4/wC/K/3Kv+EbWHw/4btLKLzJPKXZ/vvXmOleNrz4lePNP0rU9Hn0Ww02T7a0cn35n/5Y769pgfy43/66NR1IkYn2yOTxh9yT/jx2f+P1qz3P+ju+yT5aob1/4SxP+vFn/wDH61brbHb0dQGW9y0m/wDcyU+1mk8t/wBzJ96nxvH5b0Wskflv8/8AFR1LGSTXEl5F/o38NUPEbTSeH73fDH/q/nrSkuY/tEXz/dWqHia5jj0PUE/vR0dSC/avNJGn7mP7q0y186Tf8kf3qfa3kf2eL54/9WtMtbmOOSX/AHqOpY+TzI7iL/V76hvrCS+0+4t7hI5IZY2R45PuOlTT3MfmQv8A7VWZJl8t/wDWfdo6geIXU198BdQtHd5LvwNfyfPJ/rf7Odv/AGSvS/Dl4upahqtxaXMc8MqxSpPH9x0ZK2NShs9Y0d7K7tvtdncR+U8cn3HSvnifxnH+zn4su9Ht/M1bRLqPzYoJP9faPR1IPoSdJPMT99/FT5IW/wCe0leJ2vjn4geLtP8A7V0qztfszSL5UEez567PSvHmtabbxP4r0eSw835Enj+4j/7dWB20ELfZ0+eShIf9If55Pu1DazSSW6Ps+SnxvN9o+5/DQBT8QWy/Y4t7yf66P/lr/t1sfZoax/EDzSaf9yP/AFkf/odbH7yOR/kSggZBbRyR/wC61EkMcdx9z+Gi18ySN/8AV/epm2T7QiO8f3aCwns4/s7/ACU/7NH/AHY6J0k+zv8APTNknyfPQBT8OQx+Xdps+7cSVqyQr9oT5I6x/DkMkf8AaCb/APl4atKRG+0RfPJRAiBZkRXjerMCL5af7tUJIW8v78lTQQ/u0+eT7tBZNGn7yX/erN1jbHqGjv8A9Nm/9Aq/5KySP/rKzdYtljk0l/8Ap42f99JSkRI259v2d/npkG2S3T56ZJbR/Omyi0hj+zr8lMsI5l+0Om+mXbr+6+eP71Hkx/bH+T+Gn3UMaR79n8VAE0c0ccb/AD1m+EbmOTQ7RN/3dyf+P1fghj+f5I6oeEYV/svZ/dmkT/x+j7ZH2y/HNDHeO+//AJZ0X1zH5f3/AO7Rs8vUF+T5PLovv+Pd/koLH/aYZPuPUMc0ccb/ACfxVZjRfLSoY3XzJfn+61AGDdbo/FFk+yTY0MiVvTTf6G/ySfdqhfP5euaO+/8AikT/AL6Sr99NHHby7njj+WgiBDHfyfInkybHX/WVNYu3mS/uf4qZHcwyW8T+dH92poL+1jkl3zR/Nt2eZQWPkeT7ZFsT5FaprqNpNPu02fejk/8AQKrQaraySI73MH+sqafW9Pjjf/SYJPlb935qUEc0Cn4f86TQ9PfZHs8mP/0CnyedBcXD7E2VQ8P+J9Pg8P2SS3kCbY6rXXi3TZ9QfyrmPyfLX95QEZG9Gl1PGkr+XH83yVfuvtHmJ/q65v8A4TbT440i87zNrLWl/wAJlpckn+ukk/65xPS5g5omlH5ken/fj/iSuV2SR+MJdj/62zX/AMder8niqzjjdUSeT5m/5ZPWDJ4kh/4Si3litrqTdayJ5flf7dTIiUonSXW6O3fe/wB2mT+Ymz99Wbda9JJbyp/Zt192iTWLqTytmj3Un8f8FWVzFmC2kj3uk0n+srVjtv3lu++ST5mTzK55L/UJpJYotHeP5lf/AFqf3Kvx3+sR/Z0/spPvf8tJUqA5i54gtWg0e7TfJJ5scmz/AL4pYbVZrW2l3SHzIlb9KddTa1d28qS6bBsaNk8uS5rI0ez1zUNJsnhtotixKg3S+lHMYOUeYl0Ozh+x6nvT5PtEiV4/4DhWPXPEDp9zzlSvYNKST+y9QdH8t2kkrxn4cxtJca3K7/O11SidcT0WN/3dWY6px1NH+7p9TqJo6fHUMdPeaOOPfK/loq/PJJR1IJaWR18uuYk17UNYuNmiQxx238d9cfc/4AlZsnhJdVvP+Jr4nnndfn+wxypElXGJHMdnPNHa27yyvHHCq/PJJXNwQzeINQivbtJEsLdt1vB/ff8AvvXGal4M/wCEg+0J4cuZ47a1+5PcXLypcSr/AOyLXW+GdbvI400zW0ggv1jWVJI/uOn8ez/bWtpR5DM6Wiqr6lax/M95BHTJPEOlxyfPqUEf/bWubqXzxL9Pjrnp/Gehx73fUoP+2ctM/wCE/wBDj+f7Z5n/AFz30dQ5o/zHWx0lctH8RdJkj+Tz5P8ArnbP/wDEVZj8Z2sn3LPUpP8At2elzB7SJ0En8Fct4Dhkkt9bdJv+YlL/AKur8fidpPkTStS+b/plXPeB9Ymj0/UHTSrqfzb6V/4Pk+ep5jGUvfidD4g1KPw5by3txNJJ5Ubf6v8Ajf8Ag2f7bV5pYw6lqtxKmnp9r1iWSOXUNSk+5b/3IU/21qbx54h1DxN4s0/QrLTZI7yKNpXjk2ffb7n/AABa62OaTwd4bRH0qO0s4lV5Z5JU+d2+/vqy+Ypz/Ba1upHu5dYvvt8rK73UcvzvtqbQ7a48HaxaaVd3k9/YX/mJbzyffSVfv7/96uhtdY1i6t4pYrC1khlVXST7T99GrlfHE2tfY9Eu5ba1jeLVI9n71/vs9HUObnOwjto/+EsT5Pv2Lf8AodaV1bQx2fyJXK/8VB/wliIyabH/AKG2z7/9+tW+TxB9nffc2Maf9M4no6kRkbEEMP2h02fw1Na20f8Ac/irnrXStekuHlfVbWP5f+farkGm6xJJL/xOI4/mb/V21HUPfNiSGOO4i+T+FqzfEdtHJo978kf+raq0+m6pJcRebrcnzbv3kcSVT1jR9Qk0O9363P8A6tv+WSUpBKUzpLFPMs4v+ua1Nap+8l/3qwbHQZpLO3d9Yvo38tf9Xs/+Ip8fhjzJJd+palv/AOmctPqXzG3N/rLf/eqaRP3b1iSeGIZJIv8AT9Sk+b/lpLRJ4Vs/L3PNdbF+fzJLl6OocxiePPFt1o+n2WlaIkdxrd/8lvHJ9xE/jmf/AGFrlfBfwi0vTfEGpy+IHj8Q6lLHHK8959xN1TfDLw3Z+JrzW/EF2kk6NdNa2Ukkr/JEn/xT1D8UPDywaX4gl0qwkkuYrVJf3cr70RX+fZR1CUj0W30/S9Ht0iskgtIVkV/Lj+5RrCabqun3FpdzQSQyxsj/AL2uP+Gum2OufD/QtQu7OOS5lhj3ySfx7Xrs/wDhHtJj/wCXCDfVe+BzHw98Qwx+H3sru8j+02Eklu8kkv30X7lb39vabHcf8fkH3f8AnrXK+DtNs4/Gnii3+xwbN0cqfuq7P7Bax3C7IYI/l/55VJJleIPEOlyaPKiX8En7xf8A0Or8ni3S3/5ef+/dQ+I4Y/7HuNkMfyqr/wCqrbhtl8v5Ej+7R1F73MY8HirT4422vPJ83/LOJ6JPE9n9oR0hupPl/wCeT1q2v7uN0/2qfJ/x8Q1Xvh75jz+J4ZI/ksL7/v1R/bzfJs02+k+Wtuf95G6P/doT+CmByuh6xdR3Gp7NKuv9dv8A4KvvrGoeZD/xJ5/vf7FWdHfy9U1VP+mi/vP+AVfnmXzIvn/irOMQjEzZNS1iSN/+JPJ/20lSnwX+tSRps02P5l/1nm1secvlv89Q2s0f2dN71pyhymbBc659ol/0OD/tpJVbWG1z/iXvLDaxot1H/wAtXrbjuY/tD/7tU/EFzH9jtP8Ar4j/APQ6iUQlEfImvfP89jH/AN91DBDrklun+mWsf/bJ625LmPy6rWNyvl/8CquUOUzfsesfbNj6lBG/l/8ALOKi603VvLffqsf3v+eVaX2lftCPsk+7RPcNJG/ySUcocpQg0rUI/wDmMSf9+kqh4Z0e8kt7hX1Wf5bqRP3ez+/W9Hc/vE/cyVQ8OTSR/wBoReTJ/wAfkj/99VHKKUfeCTw9J9oi83WLqT5W/efJv/8AQKfdeG/Mt33399J/0z82r8lzcfaIv9Gp8k1xJbv+5/hrTlHylCDwxC+zfc3f3f8Anq9QweFbWS4l8155P+2r1qwPcSRp+5j+7TI/Mjkl+SOlyhyxMHWPDenwXmjvsk/4+GX95K/8SVsT+FdJk3/6NG77f+Wm+q3iDzo/7Pf938t5H/49Wx5N15b/ADx1EYhGJQ0rwxpcmnxO9gkj/wAfmVZg8MaX9sl/0CDZtX935VFi839noiPHGm5krVjhuvtGxZo/9XWnKHKVp9B02PZ/ocEfzL/yyq5/Y+n+Z8lnB/36SmXyTRxu73P92jfJHsf7TVhywMHw5b2/9hwp9mg+WSRP9Un8L0fZoftiOkMcaeXUPhu2kns7tPOk+W6kT/x+rklhJHeRfvpPu1iEAuoYY7d3dI/9j91XSR7Y465ufR45I3eV5JPKZXX/AGHWtLyY440/fSfdWrgWHmf61P8Apo1Y+pOqeINHff8A89Yv/HKuQWcfmS/PJ96srWLOOPUNHf8A6eGi/wC+kpSM5G9dbfLdN/8ADTLXb5aOz/w0SabHJv8Ak+9RaQx/Z03p/DTNB8c0cdxKm+P7qvVmS5jkjT5/4lqt5Mf2h/kj+7U0iR+X9yOgk0vtMcn8cdUPB95Hb6FFDv8A9W7r/wCPGtWOFf4ErH8IutvZXkP/ADzvZl/8eoIn8RxNj4kmg8P3b/2VqX3pX8zyq8c+Gs2pX1vqb2nkQQtdfP8AaN++vcrW68vwfcPv/wCWcr15L8K/+Qfev/evGrOJUYnQx2HiCT/mK2saf9M7apo9H1r+PXpP+2dsla0f8FWI6nlN+UxP+EeuvL3y+Ib6NE/5aR7KxIPD03i6SV5dY1KTR1+RY/M+eZ1/9krb1yaTUtQi0eLzPJlXzbiSP+BP/sqfrE00n2fRNMfy3lX55I/+WMS1tGIcpz0Hh6TxBqD29prGpR6Pbt5Tyfafvv8A7H+xU198E9DkjSW0hnjuUkV/Pklffs/jrubWzjsbNLeJPLhiXYkdc9pt5NH8RNVsneSSH7LFKkf+3VhyxCD4daLBH5SW08cP/PPzX2VleJvBmi2NvaaglnH/AKLcR7/M3/cb79d581Y/iqH7V4b1CL/pi3/jtRH4glGBDH4P0WP7mlWuz/rlVmPw3psPyRWFrH/2yqbSnabT7SX/AJ6xxv8A+OVZko5BckCn/ZtnH9y2gj/65xJU0cMcf3Ejj/7ZUyT95T46jqXyQLMD/wAVTf6yq0dTRvR1GTR1yvw9f/iX6mjv/wAxK5/ef8Drp4+1cr4ASOSz1N3T/mKT/wDodRI5J/HE5j4avHrHxA8W6xK8f/Hw1rF/sItM/aM1L7L8P4oon/fXV5HEnl/7VWfgnDH/AGXe/JHva8nd/wDvuuY8eaxJ448eeGtMtLaSTRLW+3vdfwTSp9/Z/sLVm57N4cRdN8P6fa+dHI9vbxxP/wABSuY+IVzHJo+jxRP88usQf+h13OxY4/uVxPiBPt3jDwvZJ9yKae9lj/2FT5P/AB+jqB0P2mOTxZF8/wDy5yf+hx1furyOS3fYklZs9/b2vjCySWaOOaWzkiTzP433x/crbuv9W9HUgI7mOP7iSUy1uVk83Ykn3qm/1mz56LX935v+9R1LIZJmkuIn8mSmaxNJJo+ofuZP9W1XJJljki+eOOodYmWPR9Q2PH/qX2f98UdSA02ZpNPtHSGT/Vr/AOgVNA80kkv7mmaPcx/2PZfPH/qY/wD0Cpo7mOO8lTfHVgMn8791sT+KsTx/qsmleD9VuE8uN1t5Nn++33K276aP9186f6yuJ+M1zH/wifled8kt5BE//fdBZf8AhzoMnhzwfp9kn93zf3n+1VPxd4kt/CNxqt7qCPJZtZxxPHBE8uxGeSuqsbmGOzSLf92s3zo5PElwkqeYjWao8cn3H+eokRI8f+Hvjm6vvh/p+haJNHJqrzSIkn8FpFv+R3r1Twr4PXw5vl+0z3d/Kv8ApF1cb/nevnj4e22veGdQ1jxL4cto7+zW8kt72x/jRVf5Nle/eEfidovjG3f7I8kF5F/x8WNx/r0erLlEp+Ekafxx4llR4/3TRxPJHXWyJJ5ifvvn21x/wvma+t9Y1V4ZP9PvpHST/YX7ldbJM0dxE/kyfdoIK3iCH/iT3Hzyf6utW1tm+zp88n+rWuY8R+LdNtY7jTLu5gjv5Y2dIJJU3vXQ2s1xJZw/6N/yzWo6kD4If3kvzyf6ynyW6/aIn/eUyN5vMfZD/FT5Gm8yL5I/vVZZNJbR+W/+7TIIYfLT5P4afJ5nlv8A6v5lpkHneWnzx0AU9Khj/tjVYtn8Uf8A48lXLqGOPZ8kf3qp6ak3/CQar88f3Y6uXSSfI/nfxUATeSvl/cotUX7OnyU/yZP71Mghb7Onz0ATIix3D/J/DWb4i2x6Xv2fdmjf/wAfq55P+kf66T7tZXiaH/iTyvvk+Vlf/wAfpSIl8B0X8VQWv+rdP9qoY4f3m/fJ92mWtsv7355PvUyyzJ+7uIv+BUT/APHu1Vvs0f2iL/WVZks4/Lf5P4aACN18tP8Adqh4fmjjvNY+f5PtC/8AoFXILWOTZ8lZulW0f9sa3EyR7PMif/vpKDOXxGxPNHHcRfPH96nyTR+W/wA9Qzww+ZF8kf3quRww+X9yOg0IbGaOO3Te8f3aN8cdw7s/8NPtUX7OnyR0+PbHcfcj+7QBj+Jpo5NPt3R/u3UT/wDj9b3nRyR7EesfxU6/2HL/ALMkb/8Aj9be9fLT/do+2R9szbFI/LTe8km2RquR6lHHcJ/rN7LRAn7t/wDeok/4+Ivn/vUFk11N5lu/ySVDI8kmx0ST5asyOv2d/n/hp8br9nT/AHaAMHwrM0cmqpsk+S8Z/wDvqr90/wDpkX7mqejzRx6prsX7v/j4jf8A76Sr87r5kT/7VEBx+AZI8klvL+58z5ap3U1x9nTyof4avz3Mcfyu8f8AFWbHdR/Z03zR/KtZyEU7W8uEkl3pH/DTNcmkk/sx08uPbeR1D9shg1B33/w1W1y8X7Gjo/8AqriN/wDx+n1M5HZyedHH8/l76rWvmeX9+n/2hHJs+fzKrWt5HJG+zzP9Z/6FVlD5Em+0J++/hq5JDJ9nd3m/hqhJeL9oi+ST7tXJLzzI3/cz/dagDSgRvs6fPJ8y1jaXPJp93q0ZeT5rwv8AnGlaFjftPbxbIZPu1xfiC6kttau8QyfOVf8ANVoMp/ESXSR/8K/mldI/+PVnry74Xp5ehu/966avS9Vhk/4V3MyTf8udeb/DJP8Aim0f+9JI/wD4/UdTridtG9Tb6gpZP3keyjqbmV4cfz/7T1N/+WszIkn+wlP8Fo199r1iX/XXkzbP+uS/crE+3/Yfh3qDp+7miWVP+B7663w/Zx2Oj2kSf8soV/8AQK0M+pq764nSnkn+Jmt3Cf6lY4rX/geyofO1jxpcXdxpmsf2TYRM0UUkcSb3dfv76x/hH/ak9xqD6nNHdzS6lO6XX8boibK1jH3JESkeqfwVDfIsmn3CP/zzk/8AQKsVX1jdHo93L/dhkf8A8cqCzib7wfN4u8J6P5Wqz2HlQr+7j+4+5KwbH4LXGj3lxdp4q1WDcu9I4/uI9ei+FU/4pvTN/wDzxWs34haq1jo/2eJ/9MvG+zxf8C+/V80/gI5Sn4H1i+1jw3b3F7+8m8ySLzP76K/yPXSR/vKp6VpsOm6fb2if6mKNYk/4DV/YawkWTR7qfG9EaUVPUB+/94lcr4A857PVdjxxp/aU/wC7/wCB11X8dcx8PZlj0/VU2SfLqk6f+P1Ejkn8cTH+F8Mmm6h4j0p5vns9Ql/74d96VleP5m0r4geD9Psnj85o53SOP7ibv46v+INbj8AfExNYu/Mg0TWbVYruST7kMqfc/wC+krz2Pxnb33jTT/Gcrz7Li8ktX8v7kMWzYn/fT1ZufRUcMkexHm8yuM8HQtrniDW9dd5PJWRtPtZP76I/z/8AfT1N408YSWtvFpWlJJJrepR7LeP+4jffd/8AYWtjwrpsfh/Q7fT7eHy4Yvk8z++/8e+jqB5d8WrVb74meGrd7O+1L7HZyXrwWn39+/5K6e317xdfWflReD5IIVVU8y7vk3/LWb8RtaXwd8UPCniC7Ty7D7PPZXEn9xG+5vrsLX4i+HdY/dWuq2M8zL8kfm/O9HUDY8Pw6pPH/wATWzgtPu7Y7e5eX7tX47aP96mz7rVNG8nlp8n8NQ2rSeZL8kf3qOoD5LOP7RD8n8VM1Wwhk0u7/cx/6tqfN9o8yL544/mpmpJcSafcfvo/9W1HUxGeH4Y5ND099kf+pj/9Aq/HDD9ol+SOs3w+kn9h6f8AP/yxj/8AQKv+TJ9of99VwLiE8K/J8n/LSuY+L2lzX3gPUGtE8y5t/Lukj/3HrpLqGSTZ++/iqaS28yN0leSRGVt8f+wyUGkTK8M6rb+IPDen6nb+W8N1Gsqf8CpnzR+LET+BrP8A9nrzSNNY+DNxcbLafUvBksjS/wCj/fsXb/Y/uV1Wm+M/DuqaxaXtvrdrJC1m3+sl8p0+f+OlIzkaWh+D7Hwdb6qlo8n+n3kl68cn8Dt/crhvjpomk31vb/ZLOT/hLbhtlpJaf690/j3/AOxW34q+JGlpu0/QvM8Q6xL9yO0+4n++9XPB3gaSxuH1XW7n7fr0q/PJ/Bbp/cSmUbHgewbSvC+n2kqRxzRRqjx/7eyr+pTLayJK/wAiKrO1PsYYZPOTZ91qyvHCR2vhfUJkSON1tZP/AECgk8u8P/DrT/HGl614l1jzJL+8kklt5P44UV/k2V7NpNzH/Z9om+P/AFa/+gVwHhXVdH0P4b6VFe3MEE1xZ/Ikn8dd5o6RyaXZPsj+aNf/AECj7YFmOaNJJfn/AIqJ5o3kR9/3Wpkax/aJfkp8iL5kXyfJ5lAEz3Mcf8dQx38ccaffq5Jt8t6px/vI02UAVrG5j/4SS9+ST5oY6v31z+7T5JPvVTsf+Rol/wBq3X/0OtW+/d2++gBkc3+xJUNrM3l/6mT71XJNsez56hguY443/fR/6ygCGSaSS8T9zJ92srxNNJJo92iQ/wANbE9zbx3kW+aP7rVleIL+z/se9/0mD/Vt/wAtaUiJfAX4JriSNP3Pl/LRazTeZL8n8VVrXXtPjs4t9/BH+7X/AJa1DH4k0mOSXffwbN1HMHNE0pJrr7RD8kdTSfapI3/1f3axJPFWkySRbL+D5Wq5J4t0mON/9Mjk/wC2T0cwcxfj877Omx46zdNS4/4STU03x/6uN6ZB4w0/7Oib5/l/6ZPVO18T2f8AwlF2+y62NDHs/dP89SRKRvXUM3yfvv8AlpVzyZP+e1Yl14qhkj+S2vvvL/yyerMfidZP+YbfSf8AbKq5iuYuWMM3l/66T71HzfaNnnSfMtZsHiSSON1TSr6T5mpk+t3klxE8Wj3Xy7v9Zso5jTmH+I7P/in71/OkkdY9/wD3zWxa2fmRo7zSfdWub1jVdSn0e9R9EkTdG3/LVKv2Oq6xJZ2jppXyNGv/AC1T+5Ucxhze+asFn+8l+eT71PktljkhR/4mqha3OsSSSommx/e+fzJaJJtckkif7Nax7W/56v8A/EVoacxvR6bHHG6f7NMgs7eSNHdPMrN3+IPL/wBTYx/991DH/b32dP8Ajxj/AO+6XMLmJtKs4YPEGpxeTHs8uKVP+BeZWrPbQ/J+5j2eZXMWsOtf8JRdJ9ptY5pbWN/M8p/uK9X7qw1zy98upQRpu/5ZxU4GMZG3PY28km/yY6x4LNZI0TyU+9T49K1iT/mKp/2ztqrQaPqUkb/8TiSNFkb/AFcSUpG3MH2BY9QT5I/mj+eSmeJrNY/Dd38n3VV/++Xp/wDYN59oRJdYnk3K39zfVbxH4Ym/4R/UP+JrdSfu2fy/k+fbU8pjKU+U3o0Xy0fZ/DVa1f8AeXCP/wA9KoWPhv7dp9pLLf30m6ON/L83/Ypn/CJWv2iVPtN1J/21erNOaRfndfMt3/6aVcjmj+f/AFdc3J4Vs49nyT/e/wCer1pR+GNNj2fuZJP+2r0Fe+bFreQ/Z4t80af9ta4bx8YZNcR1kjAaBT+pFdPpvhjS/L+ezjk+Zv8AWVU8SeDdMnvIn+xx5MXOYv8AaYUGMucxvEFzJa/De73wyfLY/wDLP/crgPhr+78J2T/3mkb/AMfrtvHmq2sfw31D99H/AMeapXmPg7xPDa+G9PT7NdSOsf8Ayztn2VnzHbGXIehR7qfHurno/FUkn+q0fUpP+2VPk8SXn/LLQb6T/rps/wDi6fU09pEzfGln/Zuj63s/d215G0qf3ElX/wCKrbvtSaPwPLexP5e2x81P+BJVC+1LVNSs5bd/D08kMsbRN5kqfxVyuh3muar4D1DQv7KjkubOOSyl/epv3r9z5P8Acq4yM5SO/wDA9nHpvhPT4tkcf7lXf/gSVg/B1Gn097jZ+5iaWJJP9tppN9YNj45vL7wO7xJYx/6K1ukf2n9+jqn9ytL4Tza5H4H0dLe2sfJlh81JJJX3u7PW0vgMeY9Res3xVc+R4b1CX/pnsSP/AG2qh/xU39/So/8Apn89YOuf8JBquqWWj/bNN+8t08kcX3EX7m+sYG0pD/E2leJpNL0xNE1WDSbCKNftHmff/wCAVz2leFW8R+JJbi41vUru2sNsUUnm/wDLVvv7K0viVN4i0vwnKjala+deSR28UccT73dn/gqzofhXXNH0+3tItYgjSJfn/wBG+d3atvae4Y8x0ljprabG8X2me7/6aXH30rSjSuY/4R7WpJH3+IZI/wDrnbVNH4VvpP8AW+Ib7/tnsrm6m/NP+U6r/Vx0ysH/AIRKaTZv17Uvl/3Km/4Q+P8Aj1LUpP8At5o6i5pm3JXN/D1/+JXqH9z+0J//AEOrMnhi1ST/AI+b6T/rpcvWD4A8PWd1p975qSfLfTp/rX/heokcspS5zrdV0q18QRy6fqcMd3Z3EbI8En3Hrwr4hfB+38HSaPLpWt3UdhcapBF9lklTYm5/4P8Adr2//hHrH7YieTJJvX/nq9cT8ZvDen2Pgv8AtC3to45rC8tpfM83+BXqzq9863w54M0fwzcS3CXP2u/l/wBbfXcvzun+x/sVqwX9v5b/AOkxx/vG/wBZTI9B0mSPzYbCDZL86yUQaLp/73/Q4NiyNR1IOY8Va9psPizw1DcTWs9tdNLFKkmzZ8yfJT/E3hXwXquj3cMttpsE3ls6T2myJ0fZ/BTPHngmz8XfZ9MieOwmlhl8q6j++jr9ys3StH8bR+G30TW7bSpHWPyk1K3++6f33Ss4gX/hJ4zhk+HelPqt/H9pi8yLzJPvuiv8ldVB4q0vzJf9J+Td/t1f0PR7PStHtLS0hjjS3jWJKmh8uOSVE/vVp1AzZ/FWnySRbXkk2t/yziei+8W2f2O4/c3Uj+W3/Ls/9ytWTd5kX/XSi6/eW8qf9M2o6gYPhzxJD/Yenp9jvpNsK/6uJ9lWY/EMn2h9mm30m5f+eVXPDLt/wj+n/wDXNauR/u7j/tnSiRGJjya3dSRp/wASe6j+b/lps/8Ai6m/tvUP+gPP/wB/ErSuv3cf/Aqf8vmbK0LMSPVdS+zuiaP5m5m3+ZKmyuG1b4e6XqviiJ7jwfY75YZHePzPkd69LgeOON/nj/1jVQnuY4/Elk++PZ9nk31HUiUTKsdKutH094tP0TTbBF/596vxvr3yP5Nj/wCP1sTTQyW7pvjpkl5HHGnz1Ycpjwf25JJLs+wx/wB/79UPEy6lJod6l7c2scLQyK/lxP8Ac2Vtx3kMckv+9Wb4j+y6xZvaXHmSQy/I/l0cpZ4b8NfDGl+OND1CXVb+OS8s4Wi+y3f/ACxiX7myu8+C1zqmq+F/Ki1WT7HZyeVbzyRffRa7CfSdJvrOX/iWx7/J8p5PK+d0X++9XPCsNvpuh6fb29tJHDFGqJHH9ygB8ej6h9ol/wCJxPv2r/q4kp82g3UmzfrF197/AGKvxzf6Q+yGT7tPnmby0fyZPvUcoFP/AIRuT+PVb6T5ahj8NxyRo7399/39re3ySR/6mqe+aOP5If4v+etLlI5TBj8N2/8AwlH/AB83WxrX/nq/8L1pT+FdPjj+/PI//TSV6rSTTf8ACURfJH/x7t/6HWrdedJbv8lTEIxIf+EP0v5H8mST/rpLTIPCum/Pvs0k+b/lpWrG915af6v7tQwfaPMl3vH96r5Q5SnJ4Y0uOSJPsEFVtV8PabJo92iWEH+rb/llWxP9ojkT546p6kk0mn3ab/8Alm1LlCURmj6Pp8ml2j/YIP8AVr/yy/2Kmg0qz+0SoltBTPD8M0mh2T+d/wAs1q/HDJHcP++/hphGPula6s4444tkMf8ArKueSvybEjpl1bN8n76T71TfY/3m/wA6SgsZAipGmz93Wb/q/Fn3/vWf/oL1pQWH+j/fk+9WPPCsfiyJN8n/AB6yf+OvUdSJGrdf8e7/AD1c8792nz1g6kipbv8A6x3/AIKuWNmv2dN9WWTQP+8l+f8A5aU+SZftEXzx1Wgto/3vyfOrU+Szjjkid0/ioAs6r5b6fdpvj/1cn/oFGh3Mcmj6e++P/Ur/AOgUTWcMnmp5Mf8Aq6h8Mww/8I/ZO6f8s6X2yDSguY47iXe8cfyrT55o/LT54/lamWvkyag+xI9+2rl1DH5afJH96mWP+2Q+X9+q0d5DHHs/3v8AllWlGi/3KrQIscb/ACeX+8aggwZLlY/FkT/vNjWbJ/4/WxdXKyW7pskqndIv/CYaU+z/AFtvKlb11+7t3ogZxK0c37tP3Mn3ahsZv9b+5kk+ar+/92js9VoH/wBIuPn/AIqDQpzzNHcW/wC5k+aodVmkk0u7RLb5/Larl1crH5Xzx/6yq11NHJHKn8e2gJfAU9DvJpPD+nukPmf6PH/6BRJNcfbJf3MfzLVPwreLJ4f09Hf7sez/AL5q5JNH9s+/95aIBArX32jy/uR/Ky1c866+T5I9m6q19eRyW7/8tKmgv4/k+egC5pX2qSSVHeP71XX026vArmaPIXb+VUtNuY5LiVE/vVtR3C+Wud+Rn+ZoIkeO/FDR9Nj+G92/2CDf5caf6qub8Bwra+F9MiT92iwrsrqvi2kkHw/u983/ADz/AHdc34Vh8vQ9P/64x1HU6Yx946GOnxov8dU5JvLkRNn3q0o6OpuP2GuP8TaVdaHrH/CS6LDJPMsflahYx/8AL3Ev9z/bWutkogdpKIyCUec57Q4fD/ibT7vWNEs7WS/ljkV5P40fZ/Gn9+q3wZuf+Lb6Ij/u5oo5Inj/ALjq9WdV8B2d9qH9q2VzPouq/wAd1aSff/30+7VZPD3iiDZFFr1rHCrf8s7H566fcMDp9f1618P2bSy+ZI7fJFBH9+Z6reHNNktY3u7tP+JleN5ssn9xG+4if7tVtL8K29jcfbbuaTVtS/5+rj+D/cSt7f8AcrE0M3xBoMPiC40qWV5I/sE32hI4/uO+z+OrkdWfLqGP/WPvoMwSpo/3dMjp9R1AloqvdXPkRp8kklTRv5kaNVgH/LRN9cl4A8z+z9TSJI/+QhP/AOh11sjr5lcx4AuY47PWEd/n/tKWsZGE/jidDsuPtCf6v/V1z3xNs7i++H/iC3fy/wDjzkf/AL5roZLmP7RF8/8ADVPWfL1HQ9Vi3yfvbeSJP+BJVm5W8BvJdeD9ElR02S2cT/8Ajnz1sRwzRxyp538Vcf8AB3W45PhnoSSv89vG1u/++r12FrcxyRyvEkkiM1HUDHvoZI/EmlOr/O8c6fu63pIZJLd900n3ax9VuVj8SaK+yT5Vn/8AQK2JLxfscuxJPlrIxiTR7o7dP3z/AHaZBD5kkv76T71MgmaS3T9zJ8y0yxmaO4uPkrXqBZks1kki3vJ96iezWSOX55PutRPNJ+6/c/xUSTTeXL8kf3aOoGb4Vs45PD+n/JJ/q60o7eGO4+5/DWV4ce4j8N2SRJHJ8rJ/4/Vz/SJLz50j/wBXSiECzNDH5b/JVz7HH/cqnJ532f8A5Z/eqzsk8v53jrQshgto/Lf5I9+6q11DHH4k0/5I03RyVZg8z5/338VZupeZH4g0p3m/hk/5Zf7FAGxOkcdu3yR/dp8cK/Z0+T+GqEzyeW++aT7v/PKrNrDJJbp88n3aAKEn/HxKmyob6NfLiTZ96Spo7BvtF2++T71Vr62/eRfPJ/rP9XQBpSOv2d02eX8tZXhmSSPS7Te/mIy1f+zR/PveT7tUPDlssmj27vv+83/odAG3HMv2h0/2afdOscf34/vVTkto47jYiUXVtbwW7vsjj/6aUAavnRx7/nqnHNHJG294/vVZjto5I0+SP7tQx2yxxsmyP71AGPJNHH4k092eP/UyVsXV/DHbypvj31lXyRx+INK+SP5o5E/8crVnjj+zvvT+GgiBNHcxyRo+/wDhqGO8h8yX5/4qs2qL9nTYn8NMjh/0iWgsJ7mPzE/1lU7q8WSOVNknzRtV+6dY9n+9VCe5WPf5v92rAZ4bvPL0Oy3pJJ+7/wCWdXI7z/THTyZ/9XVPwdN5/h+0f+7u/wDQ62I3/wBM3/7NREiBWupmjj+eGT7y1ZjvGj+d4ZKZfTLJb/fqG+eP5Nj0FlaO/mk3okPlpurNuppP+Eo099ke9oZEq/apHH5v76P/AFlVtSmjj1jSpd8f/LRP/HKUiJE0aXE8crvDHs+5/ra0oI5o7dPkj+7VaO5h+zujzR/xVZhuYfs6fPH92mWEaTeZLs8uobr7R+6+eP71TR3kMdxL8/8ADVa+vIfkff8AxUAWbWG4+f8AfR/PUPhGGR9Dt/33yLuT/vl6mtb+OPf8kn8T1W8K3ix6Xs2P8s0n7v8A4HR9sj7ZpRxyR3H+u+dlp8iTRxv5tzTI7nzLhH2SUyRGurx5fJn/ANWuygDb+zNJsfzpKrR2Hl+annP96rkdy0caf6NJ92oY5pJJJdltJ96gsx9StvI8SaP88n71ZYnk/wCAV0M9hH9nfe8n3axNYmuI9Y0KX7N5eyaRPL/v7krbupriOPZ5Me9logYRKfkxyRp8kn3ahjto/tEvyUQTXH2dERI/u1DJNNHcP/q/u/JQaD9ShhjjR9nz+ZVPyY5I33pH89VtVmuo43ffH96n2qXUke93TfQBm+FYY/7H8p0/1Uki/wDj9arwrHcJ/utWP4Ztpvs97F5yfuryRP8Ax+tW6hkkuIt83yN8nl0QCPwD7qGOS3dNkf3as6aiyRxf7tU5NNZ43TzpKm02Fo44n86T5aAOk0q28iSX5PnZVq8kkceQRknn86y7GFpLiXfNJH+7+/U7xKrNl5N2Tn8zRIh7HjHxpuZI/AcuxJI90ka1Q8Pp5el2Xyf8sY//AECr/wAdJlj8D/f+9ItUNKf/AEO3/wCua/8AoFR1O2PxGhViOb93UMf7z+CrFHU0FkmqaD93HUMiLHHvqaN/3dHUBkiNJH89Ee6SOoZJv+WX9+po6DPqDv5dPt6hut0cdFi7fPQHU0o3oqGN2kjp8b1ZmPk20RotEn7ySj/V0AEn7uOnx/u40qGNvOk/2KmkoApyPJ5lc98OZvLt9VV0/wCYhJXSSbo65jwGnmR63++8vbqEtYS+MiXxwOzkRftET/7LUSIv2OX5P4W/d1D5P+kRfPJ92ppIfLjlTfJ92tOpZwHwohW1k8W6FL9+w1aR0j/2JfnSt7xNqEmh+G/EFxbzSRvbwtKkn9zalc9o8Lab8aNdtEeTydS0uC9/4Gj7Kx/jE95faPquj2iTxp9lkurif+DykT/2ajqBseFfENxJ4b8Kaxrt/H/pE0rpPJ9zaySbN9d/vX7O+x/4a8f8R6Va6l4L+G+lbJJEv7iBH/2E8mTfXqkGmx2On+UnmSJEuxJJPv0dQ5S5HN5lunz/AMNQ6V5cdxdvv+8y0QQr9nR3/iWixtljkl3p96jqBfnmj+T54/vVNPNHHG+9/wCGq08Mcmz5P4qmkhjkj+5R1MTK8M3kcfh+33zRx/NJ/wCh1ckv4/tHyP8AOy1T8Kp5mh2/yR/6yT/0OtL7Msd4nyfw0ohAfJcx/Z6m+0x/9NKZff6t6m/5ZpWhZWjuV8uXYkn3qytRuV/tzSn2SfK0n/jyVsR/8tfn/irN1X/kMaPv/wCekn/oFKQFme58yN08mT7tPsblvLT9zJJ8tPnh+/TLF4YY0d5kj3L/AMtKYDIJpPtFwnkyfdqhqvmRyRP5P/LStKPULWO8d3uY4/lrN1jVdP8AMTffwfK3+r+SgOYuRvcSRv8AuY6zfDjzSaeiIkf+sk/9DqzJr2nxyb0v4P8Av7Wb4Z8Q6XHp7vLfwb/Ok/8AQ6gz5jbk+0faE/1f+rovvOkt/neP+HfVOTxVpP2j/j8j2bf9ZHUN14t037iTSSf9c4n/APiKrmHzHSRpcRxp++j/AO/VQxpNJv8A338X/PKqH/CYafJH8n2qT/rnbP8A/EVDH4nt5PN2W198zf8ALO2ejmDmGarbTR65pUv2mTezMn/jlbE9nN9nf/SXrm9S8SeZqGlOmm30m2Rv+WX+xWrJ4kmk37NH1KRP+AVIRkX44ZI7NP8ASZPu0yCFpLiX99JWVBr15Jbps0S6+7/z1TZRHrWofaN6aJPv8v8A1fmpVcxfMbF9bfu/vyfe/wCetU5NHt76N0lef5/+mtUJtY1SSNP+JPJH/wBvKVZjudYk2bNKgj3f89LmjmI5ojPCNhH/AGeifvNiySJ/3y9bcdhDHeImz5PLrm/Cs2uR2cqRW1rJtmk/1kr/AN+tiSbxB9oT9zYx7l/56vsqImcZF++s4YLebYnz1W+wL9/ZHVO6/wCEgkjfe9jGn/TPfvp8dtr0mzZc2Mfy/wDPJ60NOYs2ttH5ku9I/vVW1iGOPUNKfZH/AK5k/wC+kpkFnrXmS/6fBH/f/dVm65YaxHJpm/VY9n2pf+WX96olIiUjpPJVN6bI/mq/Ywr9jid0jjesH+ytUk/5jEn/AH6SprXSr6ezR01ieNNv+rjiSq5iuaRq7PLuH/2lqG+RZ4/91qzZPD1xJcbJdYuv9X/sb6H8MN5b79Vvti0yeaR0Nj+7/grE0q/+y2epvs+SK8f5P+B0+PwwskaJ/aV9s/661j+H/BkMlxqcUtzdSQrdMn+tf56iRZ0+h3Ml1b2lxL+7eXd+7rVj2+XcJv8Au1iSeErFJIk/f/8Af16hsfBmmySXDvDJJ/GnmSvVe+HvnWx3kcdunzx/dqG3v7eO4uP30H8NY9j4V0eONHezjkdl/wCWlPn0fR4JJUezgj+VdnmUcwe+HiPVbGO80R3vIP3V4v8Ay1/2KuX3iHS45HV9Sg2baoeINE02Cz0+ZLOD5byP/vhnqa+s7H7RsS2g/wC/SUzOPMULfxbo8duifb4KoSeMNLjuHf7THJ+7rVsbOH7P/qYPvNR9mWO8ifZH91qs09856+8SafJbs7zSSf3PLq5B4qsY7eLZ58ny/wDPJ61bqGOS3f5I/u0+BP8AR4k/2aCOWRyuh+JLeC41X9zPJuumZPLif+JKuXXiqPzEf7BdfK3/ADyqzpX7vxBqqf8AXN//ABytW6RfLR9n3WWoM4xmYkfippN+zSr75P8AplU1jr11HbokWj3Um1q3o6ZYuvzo/wDz0ag25Rljr2pfbE2aPP8ANH/y02UXWrat5xCaP5ijI3eYnYmtKO8h+0RIk0e/5q0LdldWY+XyR/IVZjKMzwP47wrH4btIlT53uFp8H7uOJH/urWV8d9N1KTR9MSW8gkRrr/VxxP8A/F0QeDLGT7811J/10uXrHqdsZHTptjjqH7fD9o2b031gx+A9LjjTek8n/XS5enx+ANFjkfdZ+Z/10lesg986GO8j+47xx0R6lbxxv/pMH/f2sqPwHoMf/MNjf/rpK9Pj8GaLH9zSoKfvh75NHqtjHI7y3MH/AH9qaTxDpscif6fa7P8ArrTI/CujxxoiabB/36qb+xNLj+RNNtf/AAGStCPeK0/ifR5Pv6la/L/01qtY+LdH+f8A4mUH3v8AnrVyTR7OO3fZZwb/APrmlGlabax2/wDx7R7/APrlR1L98Z/wnOhxx/8AH/H/AOP0R+P9B8v/AI/JJP8ArnE9bcdtH/AkdPjhWOT7kdAclUxP+E/0WOT/AF08n/bs9D+PNNnjTyob6T/rnbPXSbVp8m2OgOWZzcfjyx8v91Z6l/4DPTI/GHnyJ5WlalJ/2yroZI99TQIsdAcsjB/4SSST7mialH/2yT/4usHwXqlx5eqomlXVwjX0j/wfJ/sV3k38Fcx4HdY7jxBFv+ddQk/9AqOU5p/HE0v7YvI7iLZok+/a2zzJEoutV1aS3l/4k/l/K3+skStWSb/SIfnjp9xN+7fY/wDDVm3KeV+JrzUrX4oeD71NNjgmureeyf8Ae/f/ALldPrltr2peG9bsk02DfdW8kX+t+feyf7lZXxYdYJPBV3FNH50WsRL/AN9pXeedHHJL++j+9R1DlPAZPEmoabp/w0vb2GOwtrPzYv3+/fvVP40rs/AfxXuviN9tS0toLB7Vl3x3G/e6NVP47wzeIP8AhHNK09IJ7z7RJepHJ9x0RP8A2arPgfTbq+8WXviPULD+xYVs47K302P+Db9+jqB2Ef8Abklun761T5f+Wm+n2sOueY+y/tY/lX/l2f8A+Lq5HMv2eJP7v/TKrkE0cdw/+s+7/wA8qOpHKULqz1iONHfVYPmkX/V23/2dWf7K1T/oMfe/552yVZvrlUjT/Wf6xaufaf3nyJJR1A5vwrpd9JoaI+tzx/vpP9XEn9+tKTRLqO4Tfrd1I+1v7n/xFHhm5b+y2XyZP9dJ/wCh1fkmaS4T9zJ92lGIRiU5PD0kkbyvqV9J8v8Ay0lp8fhtfL3vf6lJ/wBvNX5ppJLd/wBzJHT45pJI0/c/w0+UOUx4/DFvJv3zXT7W/wCer1Q1jw3p8eoaV8k8j+cyfvJX/uV0MbyRyS/uf4qzdYeT7ZpT7I/+Pr/2SiUQlEs/8Irpcfz/AGb+H/nrRB4Y0uS3R3sEkfbV+R7ry3+SOmWv2iS3T/Vx1XKHKUI/Delx3Dp9ggj/AHdPn0Sxjj+Szgj/AOucVXI0uJLzZvj+7RdJN5f+upi5Q/sq1j+RLaCP/tlWb4cto/s92nkx/LdSf8sv9utj95Js/ffw1leH0k8u93v926kSgZfkto47xNiRx/LVa+j8yOrM8LSXEX76Sq19prSbH86Sgs0of9Wv+7TI/wB3JL/tUyC2X7Onzyfdpkdqv2iX/WUAVtVfy7jSn/6el/8AQK2/l+f5657X7aOP+z3/AOnqOtuSwj+f5KCBkG2S3R3eq1u/+kP8/wDDT7G2j+zojp5lH2OOO42In8NBYy+eP7P9+rME0fmJ88dVrq2jjt3fZHU0cMfyPsj+7QBQ8M3kaR3cW+P/AI+pP/Q61ZJo5LiJ9/yLurK8OJH5mppsj+W6atjZH9oiogRAJ5o5I3T/AGaI7mOO3T/dq5JCvlv8n8NQ2sax26f7tBZDBNH9ol/1lY/iORZI9PfZJ8t1HW+n/Hw/+7WT4mfy9Pif+7cR/wDodKREi/Jc/wCxJT7G8/0dERJPvVZ2eXUNi/7t/wDeamWQyTSfbE/cyfdqa6mby3TyZPu0SP5dxF89TT7ZI32PHQARzSfI/k1Q8PvN/aGtJ5Pz/aFf/vpKvwOv2dPnjqnoc0ceua2rzR/8s3/1v+xQZy+I0rpLiSSL9zH/AKyrMdtcR277ET+L/WUTzR+XE++P/WLV97mOON03x0zQx7WG++TY8Eaf9NKzdY8N6hJeSypNHJ/GkddDYzQ/Z0+f7tP+2RyXnzvJ/q6Uogcf4qmvLHwvb/aH+7cR/wDodWdkkfzvc0fEKZZPDdxsST5Wj/8AHXpkDx3VnslST5lqCPtkNjcyT703/dkq5PDJ9oi/fSVWsUjtd+xJJPm/5aVZkm/1T+TJ96rLJpLBpI3/AH0n3aYln/o6fvpNlXPOaSP/AFMlVrWRvs/+pqyDKtbBY/Flwm+T5reOX/x+ti602Py/+Wm+s2N5I/GET7PvWbf+OvW2/mSRv+5qIhAI7CPzE+/8u3/x2obHSoZJJVdPutVmP7RHs+SP7tVoPtH2iXYkcb0AP/sGzhuIpUT70nz+ZWtHp6puCpHjJqlJ9okjR/3f3q1BDNH8odKAPAvjg7SW+iIn8V1V+3qt8aZljuPDiO//AC8VZh+/UdTqj8RZ3tU0dQx1NG/7yjqaDqKKXZQZjqXYKfGn+xTLq2a4t3i3yR7o2TzI/wCCjqHUJIf3dEaeX/BXN/DnWJNV8PvFdzSSXlnI1u8kn332v8ldDfX9vptu8t1NHBCv35JPuVYFmNKfGjVW02/jvrf7REkkcL/89P8A0OrMc0c/zxPHJ/00jqAJo/3lElM3fvKfI9HUOoU+OPfTI90lWKsOos3+rrjPA8McmqeJXdI5P9O/9krs5P3lcZ4LSRNc8UbPufbP+Wn+5Wcjin8cTp/s0f2iL5I6mkhj+zu2z+GoZEmjuIvnj+9XMeJvEl9JePomifvLxo282f8Aghp9TpOe+NOq6bY6H4fllmgjuYtWtZfL/j2b/nr0jTb+x1WOWW0mgnhZvkkjrxbxV8EI49Pt9buNbku9YW4ileS7l+TZv+fZWbpXjbUNN+LDppWlTx6VLbtE8EcT7JnV/k/2aOoHrvibSlk8UeF9VT/l3uGidP76OldP8v8AGlcNdeJ/tF5pVpqdtdaTf/bI9kdx9x/9x67nyW8v/XSUdTEZaxr9niojT/SH/wB2i1tv9H+/JRHD5lx9+T/V0dTUffJ/o/3/AJ91TRv5mxKZdQr5f/LSn/Zo46OpkZvhVv8AiXy7/wB3/pUv/odbDsv2hP8AdrE8MwrJZ3aP/DeSf+h1q+TH9oi+T+GjqEfgLM7L9neiOZfLT56ZNbR/Z3+T+GiOGPy03p/DVljI7mPzJfnjrK1yaPzNKffH8t1HWrHDH5kvyR/w1leIEWOPT3RE/wCPyOlIiRsSXMccf346hsbiP7Onz1Z8lY9/yVDa/u46ZYyO8jjvE+eT7tPurlZI3+SSmR/8fif3NtWZ/wDVv89AEP2j/Ykqh4bmbzNQTyZP+PpmrV3fx1Q8Of8AH5qqf9PX/slH2zOXxFySaTzIvkkqaR28t/3PmfLRJ+7ki+f7zVZkePy3+erNChBu8tNkP8NMjeaO4lfyY/u1cjmj+zo++P7tQxuv2iXe8f3agDH8TPNJb2T7I/luo/8A0OtuN7qT+CCOsTxNdR/2fE6TR/8AHxH/AOh1tyX8f9+Ogj7ZWg+1eW3+r+9RIl19oT54/wDV0+xvIfL+/wDxUSXkcdxF89BYXSXEdu7+dH8q0yOG4/dfvo6ffalH9ndE8zfTI7xfk+SSgCh4fhmj1DVYvO8vbN/6ElasltJHcRb7mT71Y+j3i/2xqr7JPmkX/wBArYkuf3kW+GT/AFlECIF+Szk8t0eaSoYLP/R0TzpKm+0yfP8AuZJKhgmk+zp+5oLD7H/pDo7yfdrN8TWyx6O775Plkjf/AMfq/wCdJ/aH+p/5Z1Q8VPJ/Yd38n8Kv/wCP0pESNj7HHH/z0qGxsIY9/wAkkn7ynxzSf3I/u0y1eaPzfkj/ANZTLCSwhjuIvkqb7NDHG/yR/dqtdTXH2iJNkf3qmk+0eW/+roAfawxyW6PsjqtpVtDH4o1NPJj2NDG9TWKzSW6fPHTLGGT/AISi4+dPmtV/74V6JESOknhjjjT5I/8AWLVzyVj/AIKzbpJvs7/vv4lq59mmk2fvvkqywtY/9H+5H95qfIix3CP/ANM6rWkPlxvvmk2LJUMieZcRP50km5aAMfxp+/8AD+oJ/wBM6LH95bxP/srUPiOHzNHvYt8kn7mT/wBAqHR7ZZNPtJXeT5o4/wD0CoMPtlyDb9ol+enz7fk/3qrR2cf2iVP3lPnto/LT/eoNy/uWmWvl/Z3+f+Kn/Y4/7lVo4Y443+T7rVZBm3Uyx+MNM+f5Gt5Urbkmj8tt7x/drnr6GP8AtzR32fxMn/jlb0kMf8CVEAgTR6hH5afPH92qcd5H9sl+eP7tPgSP7OnyU+OGP7Z9z/lnQBZkvI440+f+Jf8AV1orqMbDO+qM6f6O+yr0O3yxVgeBfGJI4/EHheL+9JV+CsT4t+ZJ408OI71qwP8AfrCR1RL6VZjSqcf+/VyOmaDqkjqT+Kk/5Z0dTMmSptnmVDGlUNV8Q2OhyIl3NJG7LvSOPfvdauAHJeB0Wx8QalF/BLeTxN/wH50rV+I3gZfH+jxWX2ySw2zRyvJH/HtrlfDnifTZ/FGoRRXkfnS6pHLFHJv+dGSvV/lqqvNGRETN/sry9Hey+0zyf6O0SPJ9/wC58lcf8GdNh0rwPp7xJ5c0qs9xJ/fdX/jrvN9cZ8Mn8zwumz7n2if/ANHVP2BHbRvT/wDWVT877lP3/vKg06l+P/fp8b/vKrRvVmOrAZI9cf4RvIYPEHihHf8A5fFf/wAcqbxV8SNB8I6omn6xcyWDyxq6SSRP5Gxv9uqfgO8t77XPEtxaTRzw3E0bpJH9x0ZKjkmcUp+/E1fF3iSPQ9L+0IkklyzeVFH/AH3b7lQ+HIY/Cvh+aW7eSSZla4up/wC+9ZXxC8yfxR4NtESORGvJJXjk/wBlK6fxHC11/Z9p/wAsZbpUf/bRUoOkxLHTbXxBp6ah4jh8yGVd6QSfchRfuf8AA2rp7W5hk+eJPMhVV2SR/c/4BXB/Eq8up9Y8JaFEkkkOqSSeb/tqtc98QvDd98Nbd9V8P6rPaabF5SXFr/vP/BR1A7/xjbQ6rp9laXdt5ltLeRo//ff30p/hHVbyP7XomoJJPf2DKiT/AMc0TfcemXWpf2t4b0S7d443lmtpX/399P1yZdN8aaFdo/yXHmWUv+2jJ8n/AI/SiYnQ2M0klv8A6mSuV8afFTR/AdwkWpvJ50sf+oj+/XTwX9ra6e7yzRxpF5jv/uV458K9K0/xNrGoeLdbeCe8upJHt47vZsRFf5NlPqB2Hhz4tab4wjRIYZIPN27PM+49dzJNJ5ab0j37a8x8QQ6PqviDXbS0mtY3XT45X8vZ8ku/5NldV4Y8Yafqvh/T7uW/gjmaNd8ckv8AGtHUC/4Vmm/4mHyR/wDH5IlbcjzR3EX3K5Xw/wCJ9Ljk1DfqUGxryTZ/3xWq/irR/tEX+nwSUohGRsSfaPLf544/lojS4kt0+eP7tZUnjDSfLf8A0z/yE/8A8RRH4t0+O3T555H/AOvZ/wD4ir5g5jSjSZ7iX99Wbr8MiW9k7zfduk/9Do/4S2x8x22XUnyr/q7Z6yvEfiq3+zxIlnfSOtxH/wAuz/36mQSkdVJazffe5k/7ZxVDa2zSR/66T71UJPELSR/JpWpSf9M/KqG11u6jjdE0S+k+Zv7n/wAXVcwcxsfZv9IT55Pu0XVt5du/zySPtrK/tu8+0I6aJPv2t+7klT/4unvqWqSW7/8AEhkjTb/y0uUo5g5jVgtlkjT/AFn3aoaHbQyahqqbJPlkX/x5KZHeaxJGmzSoI02/8tLmqGmza1HrGq7LC1j+aN/LkuaOYJSOhntoY5Ivk/iqaSGHy/uViTv4gkkTfDYxpu/5Z76s7Ne8v/Xab93/AJ5PRzBzGrYwxyW6fJR5Mcdw/wAn8NY8EOvSRo/2y1j/AO2X/wBnR9m1r7R8+pQb9v8ArI7ajmDmH+JoY/7Hd9kfyyRv/wCP1seSvybErkvEem6tHocry6xJJtZd/wDoyf361Y9D1KSNHfXp/u/8s4ko5hc3vmraov73/rpRP/x8RJ/vViWug30kkv8AxO7uP95/yz2f/EUSeHpo7iLfqupSbm+fzJaOYfNI27r93G9Mj+4n+7WVJ4YXy336lfSf9tahTwxbyRo8tzdSf9tXpi5pFzR4Wj8Qaqjp/DG9bc7/ALtPn/5aLXGab4Ys5PEF6jvPJ+5jf/WvWxP4P03y/uTyf9dJX/8Ai6ziEec6TescdQwTQ+X9+P7zf8tax/8AhD9Jjj/48/M/66b6LHwlo/2d0fTYJPm/5aVoP3zVe8tY7xHe5gj+WsrxNq1j/wAI/e/6TB/q6sx+GNJjuItmmwfd/wCeVVtY8Pab/Zd7/ocEf7tv+WVR1FLnLNv4h037PF/p8H+rX/lqn9yoY/E+kxyS77+CNN3/AD1q5pWm2Mmn27pZwfNGv/LJKI9NtY7i4/0aD7y1fvj98oSeKtJ8xH+3xyPuok8Z6T/z/wAf/fp6v3VnDHGj+TH/AKxafsj8v7iUe+HvlCx8W6XJGn+kyf8Afp6fB4t0+PxRvR55P9F2fu4n/v10OlWax6ejukcbszVTupmj8WWjp/z6yf8AodBnLnC68W2b2+yKG6kdvuf6M9X4/Fscn+q0rUpP+3aprp/Mt5U/vLVmCbzI0egfLM56TxDJJHL/AMSe+kRm/wBj/wCLqn/b14kkSJok8e3ds8zZXSRzNJJcJ/tVTvpvL8r5/wCKjlK5Tm77VdUure42aPJ/q2/5ap/cqtoepatJ4ftNmmpsWNU8ySWunn2/Z3T/AGax/Ctysfh+0TfHvVW/9Do5SOX3ytHea19ofZpsG9l/1cktTTza5Jbun2O1j/7avWlvX7Yj74/u1NdXNvHbvvmj+7RymnKUPO8Rf88bGP8A77qtGmveZKm+1j+b/lpE9b0d5byR70/u1DHcwx3EqJ9yrFynK6rDrX2zSpZbm1j/ANI2J+6f+JK2JLPXJ9+zUoI93/TKofEbx+XaS7/nW6jf/wAfrb+2Q/3/APyFUfbMYx98xLHStYkt/wDkJRxp/wBcvnp/9laolwn/ABNfnZf9ZHFWlY3i/Z3RP4pP/QqJLxftETolBfLEhk0TUJI3R9YnkTb/AM8kq7Z6DdyW6sdeljP91YkqWS58yP7kn3aksbr/AEZPkkoDlifO/wAVPENvP8SNES0/094l/wBXHVmPXr7+DRLr73+xVn4leXJ8SNH/AOudaUHz1HU3jEoR69qXyf8AFPXX/f1Ksx69rH308PTyf9tUrYgT7lWY0/eVmWY/9t69J/zL3lp/00uUp/8AbHiKT7miR/8AbS5T/wCIrejqaP8A1Yo5ZD5TBjv/ABJ/BpVrH/281z3iDxV4ig1CK0tNEtb+/X96kccr/In+2+2u/nuVtbd5W+5ErO//AAGue8Bp5+j/ANqy/vLm/ka4eT/Y/grSEQ5TyXSrnWvE3jjU9M1XR7Gwv55opXsbvfKmxU/v1vSeJNe8P6f4gistSgn/ALDVXltbjfvRP7iP/crbtUt5/jpqD745JrfS4/3f+9Wb4gSOO3+Jb7P326NP9xNldso85hyl/wAK+IPEHi7R/ttvcwWD7tjwXFt86P8A991lfD2HXn0NHi1W1jh86X93Jbf7dekaUi/2XabH/wCWMf8A6BXkvg5LzUre70pH8uFLyWKWSP8AgiV/n/76rDk+IOU7+Ow8RSbHfW4Njf8APO2p/wDYfiST/mYY/wDwGSs3wzbR+HPEl3olu8kdhLCt7bwSf8sfn+fZ/sV3MdY8pfKcZqXhvx55jvpniq1kT/nneW1U47Px5Y7P7Tmnv4f45NJ2b/8Avh0r0iN6mj/jqyPZHld9rFrJbvFqc3iOR/8An1u7FP8A4hlrj9N0RfCviiWLw5f30E1xNFv03+CaJvv7/wDbWvbNc8RNayJaWkP2u/lX5I/4ET/b/wBiuP8AB1nNa+NPEEtx/p955cW+f/gFX8JjKPJylDxxpv8AZviTwfL9vvpElvHt/wDW/Ojsn8D138nhWGSPY95fSbfn/wCPl/v1yXxetry68JpfWltJ9p0u4jvU8v8Aj2ff/wC+krttH1uPX9HtNQskjktrqNXSSP8A2qx6nTKJw3xN+Ht1daHZa3o73U+saTJ9oSDzX3zJ/Gif7eyuG+IXjDwvrnw/vYtKSefVbqNU/s2Tf59s6v8APv8A92vZvFXieTwj4PvdVe28/wCxxtL5cdcTa6lpOh2f9t+ILnTZ9S1KFZX/AHSfxJ9xKOocpD4f0TS774d+H71Yfnb7Nv8A3r/O+/562/E3h7S/+Ek8NWUVmm+W6kleP/YVK5X4a/bI/h39k8mSOzt9UZLeST76RNN8ldno73HiDxpqGq/u/J02P7En9x3b7+yjlMeUZ440fS9N+HfiC6Swg863s5dkn8aUfDXw3p8Hg/w+j2cDu1jHvkkirV8Xabear4H1203xx/aLWdH/AO+Kp/DW8m1Lwf4cuInj2NZxp5f+7Vm3Kbd94e0u1s7uWGwtY/3bSvJ5Sf3KwfhzYW8nhO0d7aD5pJH/AIP4nrY8ZXkmleG72Z7mOP8Ad7E/32o8P6bNpuh2Vuj/AHY1/d1nygM8OW0Mdxq0Xkx/Ldf+yVt+SsdxFs8usfQ4ZJLzVU86SN1uF/8AQK1ZLaSOSL99J96iJEC5JCskdPsf+PeJP9moZLZpI3/fSUyC2aS3TZNJWhZZ/wCXh0/2ayvEyLHp6P8A3Zo3/wDH6vx2yyXD73k+7/rKzfE1mselv88kj+ZH/wCh0pESN7y6rWKfu3R/+ejUz+z4/wC5J/38qG1s4/n+T7rf8tP9mmWWZHX7RFsf+9U080f2d/nSqf2aGOSJNkdTSW0Mcb74Y6AHxzQxxp++j+7WVptzDH4g1P54/mWN60o0j+zo+yOT5ax7V44/EmoJsj/1ceygiRq3V5D+6+eP71WftMH9+q0/lyRo6+X96rnyxx0FkNrcRxx/8tPvUSXkf2hP9Z92jTZlkjdE++rNVmRP3ifJQBj+I5o5NDu02Sf6v/nnWrBeeZbxfuZJPl/55VW8QJ5mj3aJ9/y2q/pr+Zp9u/8AejWgj7ZTgmkSSVEhk+9TJ5pJJIv3Mn3quRv/AKRLvemXU0f7r54/vUFkMk00m/8Ac1Wjmm+zonk1ckmX5/nqtBcw/Z0TfHQBQsZpP+EouPkj+a3j/wDHXrYn+0SR/PDH/DWPBNH/AMJR9+P/AI9//Z6257mGS3dPOjogRAsx/aI4/uR1DB53mP8A6v71P/tKHy0+eOq0GpQxySvLNHs3UFlyfzP3Xzx/eqtqsMkmn3e94/8AVyU+TUoZPKdH+Si6mWSzl+eT/VtQRL4CHw/5kmj2Tb/L/cr/AOgVNHDN9ol33P8ADVDw5qUf9h2nySf6lauR3i/aPuSfdogEfgGX0Mnlpvmkj+apo7ZvM/10lVr658y3f5JI/u1NHcySbP3MlMs29NRZLeVEmkk2syVm31n5fiTTP30m9o5Eqzo8nlxzbIZPnk+eq2q3kn9uaO6QyfekRP8AvipkRI1Z7b927u8m9VpmxZLdP9Z9356fPNNJbv8AuY6rRvN5ab4Y4/l+WmWEFsskkvySVDfWdvHGn/XT/wBCpn2m4+0S7EjjTb8lMvvO+z7/AN396gAnRZN/yR1j+EbaOTS385I/lmkT/vl60p0upPuPHWV4V+1fZ7uKJ44/KvJP/Q6PtmcviOh8mNLiL5I46J7CO6kf5I9irVaRLr7REnnJ96rkHmeZKnnR7/4KBly1hj8tERI9m2ofJjjvJdn91aLWGSSNHSb5NtVpIZI9Q/13/LOgDK8Xfu9L3/3Zo3/8frb+Wub8TQt/Y927zSSbV3+X/uvWlBC0kcUr3L/dWj7Yo/EX4E/1qOn/AC0p87+XJE/+1WPHt+0SxI8n3qvz2DSRxO7yf6ygZqonmVLZNJHbqDVSOzXzN++SktoF2EfPwxFAHhfj+FZPiJp+/wDePFb1pWlUPHDySfESL5PL22tX7Td8nz1HU3iaUaVcj7VTtf3kdXI/4/no6l9R8dWfl8uq0dPkdpI6OodQurZb7T5Yf9X5sbRf99VxPhnxg2h6PFol3pt9/bdr/o6QRxPsm/ubH+7sruY/9+pKUZB1OC03wBeab44svEf7uS5uLWSLUpP9v+DZ/u1cj8HySeKPEtxd/vNN1a1ji8v/AIB89djUclae1I5Tg7Hwx4otbdNJTWLWTTYvkS6kif7UkX8FM8B+A5vCOsa67v5kN1Nvt4/49ldzGlGxpKv2sy+U5u60GaTxxpWqxf6mK1lt5f8AgX3K6qNP3dMj3VMlZ8xmTR0//V1DG9PpgMnRfM83ZH5zLt8z+PbXK+GZPL8YeJfn/wCeX/oFdbXJeH7aOTxx4o81P+eSf+OUGNX44nWz+XJ5W/ZsaT/lpXmPh/WI/hL4sl8Naq/l+HtSkkuNFvv4Edn+eB69Iks4Y/K2JH/rKZ4g8MaT4m0u40/VbOO7tpf+en30f/f/AL9R1Asz/Y59Le0u/LkhljZHjk/jSuM0r4b+F9H1B7iK2g+7/wAtP4Kx7HwT428I26ReH9b03WtNVvktda374U/2HqaPSviBrlx5V7c6V4eRo/new3yv/wAAqyx/xG8W2cFmmhaVMkmsXEkaxRx/ct/n++9dh4ZsLPw3odvZRTeZtXe8n992+/XPf8IHpvhHw+6WiST3ktxHLcXVx/r5n3/x13nlr/cqCCta3kMdu+9/MRmb/ge6vJdK1K++EmuXGlS2d1q3hKWSS40+6tIvNe33v9x0r12xT92//XRqe+6O4i+f+9Vlnm8eq6h8QtYSW4sLrTfD1ntlSO4j8p7iX+D/AIAtehW80ccafJJ91asyI0kb0f8ALNf92gDH0e5X+0NV/wBZ8si/8sv9itie5/eRPsk+9Wbo+6PVNY/66J/6BWrO7fuv+ulECID5Jm/54ySUy1uZPLT9zJUz9aZBMslunz0FkPnSfbHdLb+GqHiOab+x5f3P92tWOZY7z53j+7Wb4mmWTQ7v54/u0pESL++4kj3+SlQwfaPn+SOP5quR3NvHb/66P7tVo7mGCSX54/vUyxk/nRyRfc+9T5HuJI3+eOmT3kfyfPT5LyH5/n/vf+O0AMjhuJLdP30dY/2H/ioLhN/z+TH89bcF/HHbp/rJKx47lZPFFw8XmSJ9nVP/AB+giRctbOaON2S5/iq/dQyf89pPvf8ALOmRzL9n2Ikke6pprxv+eMlBYzTdN8uN/wB9J8zVZksP3kXzySJVDSryT97+5k3rJVye8k+0RP8AZpP9igCHWLCP+y7355P9W1Gjww32j2kux9jRr/6BTNYubifT7tEtv+WbUzwz9oj0Oy2Qx7PLX/WS0fbIJo7aOS4lR0+T/nnRdWcMex9n3mpm+6/tCX5I49y1DqP2yO3Z/wB396gsuSQ28m/ZDHJ/fqha+X5fzwx/ean6Uk32d/nj+9VCN7qT5N8fyt89AE0cMf8Awllu+yPY1u2//vutu+hj+xv8kf3awY4bj/hINP3zJvaOSt6e2mjt/nuf/IVECIE2+OO3T5Kh02FZLi4eVI/vfJHUMdnNJbxP9pk2bamjhkkklRJpI6CyzdbY9nyfxUySZfLf/dqtPYNJs82aT71P+x/9NpNjUAZvhG5/4k9pEiSSfeTzP4Pv1sf8vn/AayvCtmv9l7N8n+skT/x+r8ln5eoRJvk+7/rKIEQC+Rvs7uj1Nazfc31DdabHHbv87yfLTI/ssciJ+8kmZVRKCzb02ZvMlRH+RW/1dVtc2x3miO7/APL1/wCyUzR7CP7Rd70+emeI7GOP+zH8n/l8j/8AHqUjOR0M9zH8+946yo7mP7Omx4/u1cns4fn2JHWbHZxyW7u6RyP81M0IYPJkuHd3j3tHT76aH7G6JNHJ92prWzjjuIv92rN9ZxyW7/JHQBjz6lH8nlfvKoeGbyOOTVd7xx/6Uzp/3xXSfZlj2fJHWVo6/wDE41uL/poj/wDjlBnImu7yGORH3/daiS/jjkf/AFn3W/ef7tXLqFY40+T7rVWuv/QqDQh03VZPLf8A1kibqs/2kslwjoknzLT9NRY7N0/us1PdPLkioIMTxBN5ml3abJI90bUWN/JJZ2iJDJ80a1pX0PmWd2n/AEzk/wDQKp6H/wAgeyl/6ZrQZ/bJoNsdxL+5k37as31zJ9n/ANTJ5KtT43X7Y/zx7PLo1JI5Ld97/dWg0Hx38kmz9z/dogkVfN/c87yTT4/s8caPvT7v/PWqvmW6s48yMc/89aAPF/F15HJ8TLhP+netix+5XPawi/8ACwNV2J92Na3rSo6m8TSgRasx1WSrUFBfUWpN61J/FUVAdSeN6fvpkaUed5f36A6i1BJT96x/8to6hkvI/wCOaOgOo+N6P+Wj1W/tK3j377mD/v6lM/tK1j+/eQf9/UoDmND+Kn1Sk1jT44/+P+1/7+pUMniTS4/k/tK1/wC/qUGfPE2I/wB5T6xI/FWix/J/atr/AN/Uo/4TDRfnT+1bX/v7VcxPNA265LQ0m/4TzxG8SR/diT95/uVpf8Jdovl/8hW03/8APPza57w/4k02Dxp4gllvI9kscGyT+/tSokc9WUeeJ20n2yPZveP/AFlWZEupP+W0dYl14w0n5Nl55nzf8s6mk8Z6THH/AK6ST/rnE/8A8RRzGnNAvxpNPGn76P8AipkkM0dxsSby/lrNg8YabHGm/wC1SfN/z7P/APEUf8JbZyXHyW19J8v/AD7PTAPE0Mn9jyv9p8zbJH+7/wCB1sfZpPv/AGmSuY8TeJ4f7Hl/0DUvvR/8uz7Pv1sf8JC3ybNK1KT/ALZUoi5vfLNjDJ8/76T/AFlPks2+0RfvpJKoWOvSfPs0e++839z/AOLok1y6kuIv+JPdfJ/z02f/ABdXzD5jVks/3b/vp5PlpkdrH5aJvkqnNquofZ32aJP/AN/UpkGpap9ni/4kn8P/AD8pso5g5ojNKsI/7c1VH8z/AJZ/+gVq3VhDHGifvJN0lc3pupaxJ4g1V00eON9sf7uS5T/xx9laU95rkmz/AEC1j+b/AJ+X/wDiKjmCMjbks4ZPuJ89Q2NnbyW6fJHJ8zVQ87xB8+y2sUf/AK6v/wDEVDA+vfZ/kSxjdvv+ZvphzGrJbQ/aETyY9m2q2uW0P9j3b+TH/q6rbPEH2hH87TY/l/55Ps/9DqHxBba9/Y9273ljHtjb/l2f/wCLo5glI6SC2hkt4n8mOP5VpkCR+ZKrp/F/zyrNtbPXJLeJ01i1jTy1/wBXbf7H+/UMej6tJcS79b8v5vn8u2Sq5hcxq3yfvItif8tP+eVTSfu46xJ9BvvMTfr08nzf88k/+IqzJ4buPLffrepSf98f/EUcw+aRZg+e3RP9qqH/AB4+KNn/AD1tf/Z6ZB4YaSP59V1L73/LOX/7Cqf/AAitrH4ki8281KR2t5P+Xl/79SRKR086eXbu9Tf8s/uViXXg+z8t9819J/0zkuX/APi6P+EJ0uSNN6T/APgS/wD8XVl++aUbrHJL8/zq1PnvF/0d98exm/561j2vgbR45H32fmbW+TzJX/8Ai6mk8JaPHIn/ABLYPmagPfL99qFnHb3H+kwR/u2/5apWb4c1uxj0e036laxosK/6yVKsz+GNFjt5UTSrX/Vt/wAskqn4Z0TTf7DtH+wWrvt/55JUdTP3+cmk8Q6THcO/9pWsfy/89Uqnqvi3RZLf5NSgk/651q/2bYx3GxLaCP8Ad/8APJKrX1tbx2+xIUj/AOudBp75mx+KtLjj+TVYPnog8T6PHG/+k+Y7N/zyf/4it793HHvRI6rWu2Pf8nzq1WHvmJP4t0mPXNKdJp5P9Z/q43/uV0M/jCxkjfYl1J/1ztnqnfO0msaO/wD00bf/AN8V1Un7y3f+4y0QM4xmc9H4tt/s6/6NqUny/wDLO2emR+KljuJdmlal91f9ZFW3Hu+zxbPMpif8fj/7tA+WZlXXiSSSNNmj6l97/lpGn/xdH9vXkn/MEvv/ABz/AOLrYuv3cdTfL/BQHKcf4Z1i+j0+VE0SeT99J/y1T+/V+bVdU+0RP/Ykm/a2yOSVKs+HNvl6gn9y6krVndftEXzp96gUYzOeurzWJLd0/seP/tpcpT7FtYjjR00qD5l/5+a6GeaOSN9jx/dosZo/s6Pvj/7+0co+Up6bN4gjkl2WFjv/AOvl/wD4iq3iObxBHb27vDpsaLcRv/H/AH66SxvLeO8ZPOj/ANWtZXirUoZNLfZNHJtkj/8AQ6UglEJE8SSffm02P/rnE9QwWfiCSN/9MsY/mb/l2ff/AOh1tx3lu8afvo6LG5hjjf8A66UcpXKYklhrkdxEn9pQb9v+sjtv/s6fcWGteW+/WI/ut/q7ZK0rq/X7RE6eZRPfr5bp+8+61PlHymD/AGbq0kaO+tyf9s7ZKoWOlahJ4k1BP7Ynjdo438yOJPnrbjv1+z/ckqhazeX4slREk+e1j/8AHXoMZRH3WiXXl/vdYupPm/2KfJ4Ymkkd31W+kdq0p7n/AEd/3MlWY7ln/wCWMlHKa8pz1r4baSSVH1K+2eZ/z1p8/huOOSJPtl1J83/PV62IHk8y4/cyfK1Vr55Pkd4ZPvUuUfLEp/8ACH2skbo811Im3/nq9UPDnhWzn0O3eXz9/wAyf61/4XroftMke/8Ac1Q8KzSR6W8WzzNskif+P1PKYSjHnGR+FbGO4RHSfYy/89amn8H6b9nfZDJvVf8AnrV+TzpLiJ2SOOppHuJLd/kj+7V8pfLEoR+FdJkjT/Q4/u1Fd+FdNSYhbOPbitS1eaO3R9ke/b/y0qrfPcefwkeMUcocsT5uW3utf8ZavJJfSwMrL/qflrpbXwfdNGf+J/f/ADf7QoorGRoWLXwbPdyJ/wAT3Uo/9yXFXIvBAb7+s6o/1uTRRQPlRP8A8IREdnmarqkv+/dtT5PBFjGhc3F87N63TUUUByom/wCFeaZ5fztcy/71zJ/8VTG8A6RH96Bpf9+WT/4qiigOVFdvB2jrJ/x4o3+8zH+tB8G6K/XToj+FFFAcqHL4O0OL7umQ/lT4/COiLJ/yCrX/AL90UUByot/8Ifon/QLtP+/K/wCFSr4R0WGT5dLtP+/K/wCFFFAcqJF8O6XCyFdOtR/2xX/CrS6TZQ/ds7f/AL9L/hRRV2DlRLDp1v8Aw28C/SFf8K5nw75f/Cd+IVWFFDJE3SiijqYS+wdndWi+WnCf6xf4BUn/ACzooo6mxWg/1f8AwJqk8sfbkPfy6KKssyfE3y6NdKPuqtbEf+rT/dooqOpH2xunqF83H96nTqfMi5/iooqyx86nbu3c02CQ+SjYH3fSiigDLsPl8UaimBtaOPtWnNny4+R8relFFZxIgTSSH0X8qZax/u+33vSiitCyecYuExx8tVvEC7dHu8/N+7aiiiREvgLmk86fb7yz/u16n/YptrJ++lYg7f7oOBRRQEAnuDtjPOVk45p8l1jfhf1oooLK0d0Ej4THzetZ018F8VWrCJctBItFFBEi7casWt3/AHMdPi1RmjTEaL9BRRQWQQanJ51wu1dydGxzT59Ql/dfd+96UUUwEuNTnaK4U7PlXj5azfDN5ONHttkgTazdB/t0UUvtkfbLpmnkuEzLn5fSq9880nWdvu+lFFBY/wAuXah85s/Sq1nDLM0oa4k+9RRQAl1BKdQ0rNzIf3pX80rsY9PMu/dcS/nRRRAiBDY2Y8tP3jfxVA2mKtw/7x/mWiigsll0tFt3zIzfWpF0uJtnLfnRRVgZOgafbfa9UXyhhZj+qVo3lpFF5O1P4qKKgiA7yIP+eKflTrKOFgi+Qm2iigC/bxwrLuECZ8uqXiqOMaJdsI1Bxu6UUUSCRtwxhoI2P8S1LYKi+bhf4qKKAIL7b8ny/wAVJPGPLf8A3aKKsszrHElmmMr9DWay7fGMbd2sz+j0UVEiJGzJ/wAe7f7tX4/9Wv8AtLRRVlkO39/KuePlqjqchhh3KADuXtRRUEiqvmbcmsvw/mMX6g8LdSUUUGcvjNhm2yRcD73pVraPQflRRQbFW3bbbKuBj6UtyCzqcj7o7UUUEH//2Q==)

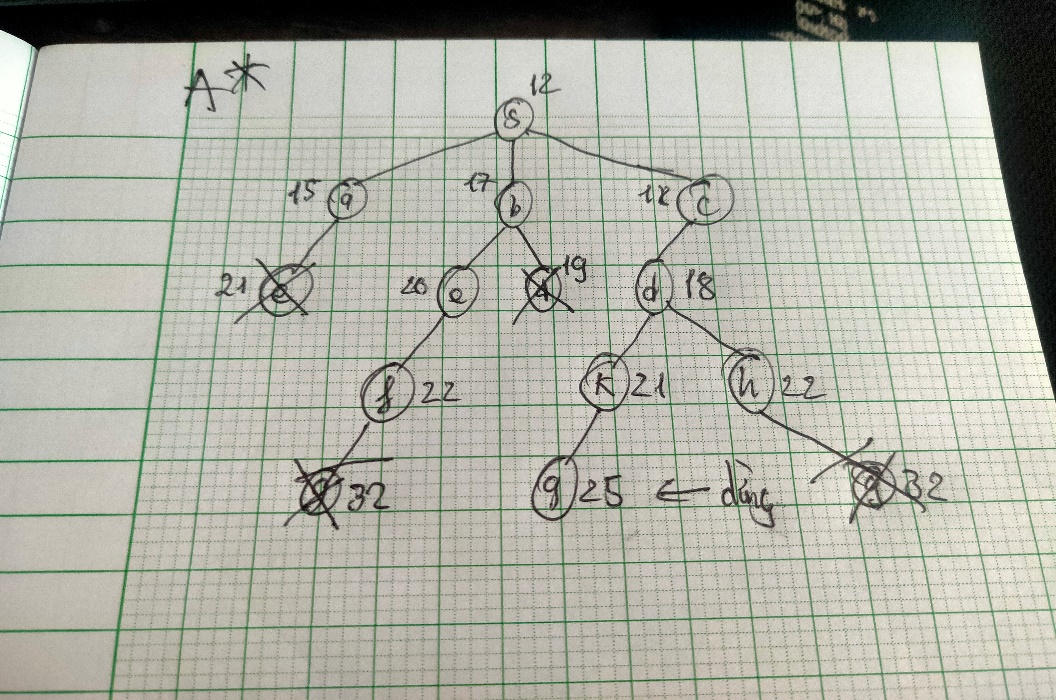
1. Sử dụng thuật toán A\* search mô tả các bước lặp, vẽ cây tìm kiếm và chỉ ra đường đi từ đỉnh **s** đến đỉnh **g**. Nghiệm tìm được của thuật toán có phải là đường ngắn nhất không? Vì sao?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lặp | Node | Explored set | Prontier | Parent |
| 0 | s | {} | (s,12) | P(s)=s |
| 1 | s | s | (a,15),(b,17),(c,18) | P(a)=p(b)=p(c)=s |
| 2 | a | s,a | (b,17),(c,18),(e,21) | P(e)=a |
| 3 | b | s,a,b | (c,18),(e,20), (d,19) | P(e)=P(d)=b |
| 4 | c | s,a,b,c | (e,20)(d,18) | P(d)=c |
| 5 | d | s,a,b,c,d | (e,20),(k,21),(h,22) | P(k)=P(h)=d |
| 6 | e | s,a,b,c,d,e | (k,21),(h,22),(f,22) | P(f)=e |
| 7 | k | s,a,b,c,d,e,k | (h,22),(f,22),(g,25) | P(g)=k |
| 8 | h | s,a,b,c,d,e,k,h | (f,22),(g,25) |  |
| 9 | f | s,a,b,c,d,e,k,h,f | (g,25) |  |
| 10 | g | 🡨Trả về nghiệm |  |  |

🡪 P(g)=k,P(k)=d,P(d)=c,P(c)=s,P(s)=s 🡪 s-c-d-k-g:25

- Khi sử dụng thuật toán A\* thì nghiệm có thể không là nghiệm tối ưu.

- Vẽ cây tìm kiếm



**Bài 2.** Cho bản đồ với miền giá trị của các vùng gồm: DA = {R, G, B}, DB = {R, G}, DC = {G, B}, DD

= {R, B}, DE = {R, G, B}, DF = {R, G}, DG = {G, B}.

|  |  |  |
| --- | --- | --- |
| **A**  R,G,B | **C**  G,B | **F**  R,G |
| **D**  R,B |
| **B**  R,G | **G**  G,B |
| **E**  R,G,B | |

1. Sử dụng thuật toán tìm kiếm quay lui kết hợp kiểm tra tiến để tìm tất cả các nghiệm với điệu kiện các vùng lân cận nhau phải có màu khác nhau.

Chọn vùng D là vùng bắt đầu vì D có nhều lân cận nhất, khi đó ta sẽ có 2 trường hợp gán giá trị cho vùng D:

\*) Gán D={R}, xóa các vùng lân cận có màu R, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  G,B | **C**  G,B | **F**  G |
| **D**  R |
| **B**  G | **G**  G,B |
| **E**  G,B | |

-Chọn vùng B và gán B={G}, xóa các vùng lân cận có màu G, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  B | **C**  G,B | **F**  G |
| **D**  R |
| **B**  G | **G**  G,B |
| **E**  B | |

- Chọn vùng A và gán A={B}, xóa vùng lan cận có màu B, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  B | **C**  G | **F**  G |
| **D**  R |
| **B**  G | **G**  G,B |
| **E**  B | |

-Chọn vùng F và gán F={G}, xòa vùng lân cận có màu G, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  B | **C**  G | **F**  G |
| **D**  R |
| **B**  G | **G**  B |
| **E**  B | |

**Không tìm thấy nghiệm vì các vùng lân cận {A, C} và {E, G} có cùng màu B**

\*) Gán D={B}, xóa các vùng lân cận có màu B, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  R,G | **C**  G | **F**  R,G |
| **D**  B |
| **B**  R,G | **G**  G |
| **E**  R,G | |

- Chọn vùng C và gán C={G}, xòa vùng lân cận có màu G, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  R | **C**  G | **F**  R |
| **D**  B |
| **B**  R,G | **G**  G |
| **E**  R,G | |

- Chọn vùng A và gán A={R}, xòa vùng lân cận có màu R, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  R | **C**  G | **F**  R |
| **D**  B |
| **B**  G | **G**  G |
| **E**  R,G | |

- Chọn vùng B và gán B={G}, xòa vùng lân cận có màu G, ta có:

|  |  |  |
| --- | --- | --- |
| **A**  R | **C**  G | **F**  R |
| **D**  B |
| **B**  G | **G**  G |
| **E**  R | |

1. Sử dụng thuật toán tìm kiếm xung đột tối thiểu (min-conflicts) để tìm một nghiệm với điệu kiện các vùng lân cận nhau phải có màu khác nhau.

|  |  |  |
| --- | --- | --- |
| **A**  R,G,B | **C**  G,B | **F**  R,G |
| **D**  R,B |
| **B**  R,G | **G**  G,B |
| **E**  R,G,B | |

- Khởi tạo phép gán hoàn chỉnh ban đầu: current = {R, G, B, B, R, G, G}, các biến xung đột gồm:

{C, D} và {F, G}

Lặp 1: Chọn biến ngẫu nhiên trong các biến xung đột, ví dụ chọn C. Tính giá trị xung đột cho biến C: G(0), B(1) => chọn giá trị C = {G} vì xung đột tối thiểu => current = {R, G, G, B, R, G, G}

Lặp 2: Các biến xung đột gồm {C, F} và {F, G}. Chọn ngẫu nhiên 1 biến xung đột, ví dụ biến F. Tính giá trị xung đột cho biến F: R(0), G(2) => chọn giá trị F = {R} vì xung đột tối thiểu

=> current = {R, G, G, B, R, R, G}

Lặp 3: current là nghiệm dừng.

|  |  |  |
| --- | --- | --- |
| **A**  R | **C**  G | **F**  R |
| **D**  B |
| **B**  G | **G**  G |
| **E**  R | |

**Bài 3.** Biểu diễn logic mệnh đề

# Cho các giải thiết sau:

* 1. "If today is working day then I will keep my laptop with me.”
  2. "If it is Sunday then it will be a holiday."
  3. "If today is other than Sunday then it will be holiday or working day.”
  4. "Today is not holiday.”

Hãy biểu diễn các giả thiết trên thành logic mệnh đề và chứng minh kết luận sau: “Today is holiday or I will keep my laptop with me”.

Ký hiệu:

P = Today is working day

Q = I will keep my laptop with me

R = Today is Sunday

S = Today is a holiday

 Biểu diễn KB = {P => Q; R => S; ￢R => (S v P); ￢S}

Chứng minh kết luận sau: “Today is holiday or I will keep my laptop with me”: S  Q

Giả sử R: True mà R => S thì S: True - Theo Modus Ponens Trong khi ￢S là True (vô lý), vậy R: False

R: Flase thì ￢R: True mà ￢R => P  S .Vậy (P  S): True

(P  S): True thì hoặc P: True, hoặc S: True hoặc cả 2 đều True

* Nếu S: True thì S  Q: True theo Or-Introduction
* Nếu P: True mà P => Q, theo Theo Modus Ponens thì Q: True. Q: True thì S  Q: True theo Or-Introduction

Vậy S  Q: True.

**2) Cho các giả thiết sau:**

# "If you send me an email message, then I will finiIt sh writing the program."

* 1. "If you do not send me an email message, then I will go to sleep early."
  2. "If I go to sleep early, then I will wake up feeling refreshed."

Hãy biểu diễn các giả thiết trên thành logic mệnh đề và chứng minh kết luận sau: "If I do not finish writing the program, then I will wake up feeling refreshed."

**Trả lời:**

Kí hiệu:

P = you send me an email message

Q = I will finish writing the program

R = I will go to sleep early

S = I will wake up feeling refreshed

Biểu diễn KB = {P => Q; ￢P => R; R => S}.

Chứng minh kết luận sau: "If I do not finish writing the program, then I will wake up feeling refreshed: ￢Q => S

- Đánh số các câu trong KB như sau: (1’) P => Q  ￢P  Q

(2’) ￢P => R  P  R (3’) R => S  ￢R  S

Từ (1’) và (2’), áp dụng luật phân giải ta có: (4’) Q  R

Từ (4’) và (3’), áp dụng luật phân giải ta có: Q  S  ￢Q => S (dpcm)

**Bài 4**. Cho cơ sở tri thức: ) KB = {A ∧ B ⇒ ￢C ∨ D; C ∧ E ⇒ A; E ∨ F; ￢F ∨ G; ￢(E ∧ ￢G); G ⇒ B ∧ E; E ⇒ H; H ⇒ C}, α = D

1) Áp dụng các luật suy diễn, chứng minh D.

|  |  |  |
| --- | --- | --- |
| (1) A ∧ B ⇒ ￢C ∨ D  (2) C ∧ E ⇒ A  (3) E ∨ F  (4) ￢F ∨ G  (5) ￢(E ∧ ￢G)  (6) G ⇒ B ∧ E  (7) E ⇒ H  (8) H ⇒ C  CHỨNG MINH: D | TỪ (3) VÀ (4), áp dụng luật phân giải, ta có:  (9) E ∨ G  TỪ (5), chuyển ￢ vào trong (), ta có:  (10) ￢E ∨ G  TỪ (9) VÀ (10), áp dụng luật phân giải, ta có:  (11) G  TỪ (11) VÀ (6), TA CÓ:  (12) B ∧ E  TỪ (12), TA CÓ:  (13) B  (14) E | TỪ (14) VÀ (7), TA CÓ:  (15) H  TỪ (15) VÀ (8), TA CÓ:  (16) C  TỪ (16) VÀ (14), TA CÓ:  (17) C ∧ E  TỪ (17) VÀ (2), TA CÓ:  (18) A  TỪ (18) VÀ (13), TA CÓ:  (19) A ∧ B  TỪ (1) VÀ (19), TA CÓ:  (20)￢C ∨ D  TỪ (16) VÀ (20), TA CÓ:  (21) D (đpcm) |

2) Áp dụng thuật toán phân giải, chứng minh D.

|  |  |  |
| --- | --- | --- |
| Đánh số các câu trong KB:  (1) A  B => ￢C  D   1. C  E => A 2. E  F 3. ￢F  G   (5) ￢ (E  ￢G)   1. G => B  E 2. E => H   (8) H => C  CHỨNG MINH D | Chuyển các câu về dạng CNF:  (1) ￢(A  B)  (￢C  D)  (￢A  ￢C   ￢D)  (￢B  ￢C  D)  (2) ￢(C  E)  A  ￢C  ￢E  A   1. E  F 2. ￢F  G   (5) ￢(E  ￢G)  ￢E  G  (6) ￢G  (B  E)  (￢G  B)  (￢G E)   1. ￢E  H   (8)￢H  C | Đánh số lại các câu:  (1) ￢A  ￢C  D  (1') ￢B  ￢C  D  (2) ￢C  ￢E  A   1. E  F 2. ￢F  G 3. ￢E  G 4. ￢G  B (6’) ￢G  E 5. ￢E  H 6. ￢H  C   (9) ￢D (BỔ SUNG) |

Chứng minh:

|  |  |
| --- | --- |
| Từ (3) và (4), ta có:   1. E  G   Từ (5) và (10), ta có:   1. G   Từ (6) và (11), ta có:   1. B   Từ (6’) và (11), ta có:   1. E   Từ (7) và (13), ta có:   1. H   Từ (8) và (14), ta có:   1. C   Từ (13),(15) và (2), ta có:   1. A   Từ (1), (15) và (16), ta có:   1. D | Từ (1’),(12) và (15), ta có:  (18) D  Từ (9) và (18), ta có:  {} => D đúng |

HẾT