進捗報告

亀田ゼミ

M2　中田雄大

* 振り返りと今後の取り組み

～ 研究概要 ～

画像符号化の目的は画像中の余分な情報を減らすことで画像の効率的な伝送・保存を行なうこと．代表的な方式である離散コサイン変換（DCT）は画像が必要とする統計的な特徴を抽出・保存できるが人の視覚は考慮されていない課題があるため，人の視覚野が扱う特徴を抽出・保存できる独立成分分析(ICA)と併用することで，両方の特徴を保存することを目指した符号化手法を提案している．

DCTとICAを組み合わせる際，どのブロックにDCTまたはICAを適用すべきなのかを決める必要があり，各ブロックに用いる適切なICA基底の種類と個数を模索する中で，最も符号化性能を改善可能である適用ブロックの組み合わせとICA基底の種類，個数を明らかにすることで，DCTとICAを併用した符号化手法の性能改善を行う．

～ 前回の振り返り ～

今後取り組むことは，大きく3つ

1. 処理コストの削減
2. 基底形状の変更による性能改善
3. DCTとICAを直接的に組み合わせる

前回の進捗では，☆3の一環として，先行研究でできていなかったICAの直流成分をDCTの直流成分から作り出す処理について考案した．（DCTの変換式を見てちょっと直しただけ）前回の進捗の概要を図1に示す．

![ダイアグラム

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAKAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOS4reeUsOmbhOWkpwAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzEwAACSkgACAAAAAzEwAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjA1OjAyIDExOjE3OjMzADIwMjI6MDU6MDIgMTE6MTc6MzMAAAAtTjB1xJYnWQAA/+ELH2h0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjItMDUtMDJUMTE6MTc6MzMuMTAzPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPuS4reeUsOmbhOWkpzwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAIfBREDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6RooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK5vXvFk+ka9aaPp2g3usXl1bSXQS1lhjCRxsisSZXUdZF4HrQB0lFcc3jjU7S8sYtX8G6pp0F5dR2i3Mt1aSKjucLkJKzY+grpk1Wzk1mbSkmzewQJcSRbGGI3LKrZxg5KMOD2NAFuisfwzrz+IdPurmS1Fq1vf3NkUEvmZ8mZo92cDrtzjtnqa2KACism18R2V74qv9AtxM93p8MU1w4T92nmZ2pu/vYGcehBrWoAKKKKACioLu+tLCPzL66htk/vTSBB+ZqPTtW07WLd59Jv7W+hRzG0lrMsiqwAJUlScHBHHuKALdFcze+OrCwvprWXSvEMrwuULwaHdSxsR3V1jIYe4OKwfEvxWj0/TYTpGj639tuLuC3iF7oN2qENIN+PkUswj3kKDkkdD0oA9Eorkv+Fi6b/0BvE//AITt5/8AG63E1Ke/8PNf6PaSG4kiZre31BHtSWGQA4ZdyZI7r0oA0aK5Kz+JPh/+yTda/dJ4fniuGtLm11JxG0M6gMUz0YYIYMOCCDWRf/GHwvD4o0i1s/E+hvptwlwb2YzgtGVC+Xhg2FyS3UHOOMYoA9EornNN+IXhDWNRisNK8S6ZeXcxIjghuVZ3IGeADzwDXQSzxQKDPKkYJwC7AZ/OgB9FV/7Rsv8An8t/+/q/41yOk+MtTvvAcGsJBp97qHnSia0in8jzI0ldP3e4t8+1QcMcE55FAHbUVBaXcV7bJNA2QyglSRlcjODjoara9rNr4d8P32sag222soGmk9SAOg9yeB7mgDQorndS8UXGk+CIvEV9pE0e1Ipry0EgL2sTEeYxwPm2KSxHfaa6CKVJoUlhdXjdQyspyGB5BFADqKKxfF3iNfCnhqfVTbNeSI8cUNqj7Wnkd1RUU4PJLCgDaoqBbyHzY4JZYo7mRc+QZAW6ZOB3xU9ABRXP6tr+s2GoPb2Hg/UtUhUAi5gurVEYkcgCSVW46cihdf1o6I14fB+ordifyxYG6tfMZMZ8zd5uzGeMbt3HTFAHQUVwus/EPVvD+jXWq6v4D1i3srRDJNL9rsm2L64WYk/gK7qgAorlPDPjF9S+Htp4j1a2l3TM4eLT7WWdhiZkGEQM54AJwPU1SvPiKh1jS10zTtYm02R5Vv5T4cvy0YCHZt/dD+MYPDfh1oA7iisPR/F2m69dLDpsOqEMhcTXGlXNvFgED78saqTz0Bzwa3KACiuV1rx/ZaVrkmj2Wlatrl/bxrLdQ6VbrL9mVvu+YWZQCQMhcliOcVseH9f0/wATaLDqmkStJbykrh0KOjKcMjKeVYEEEGgDSooooAKKKKACio7i4htLeS4upY4YYlLySSMFVFAySSeAB60sE8VzbpPbSpNDIoZJI2DKwPQgjqKAH0UUUAFFFc/4a8UHxDqWvWhs/sx0fUDZFxLv875VYN0GOGHHP1oA6CiiigAooooAKKKpaxq9joGkXGqatP8AZ7K2XfNLsZti5xnCgnvQBdopkMqTwpNE26ORQyt6gjIrO8Qaw+jafHJb2hvLm4njtreDzBGGdzgbmIO1RyScE4HAJ4oA1KKyPD2ty6xDex3lotnfafc/ZbuFJfNRX8tJBtfC7lKSIc4B5wQCK16ACiiigAoorC8XeJf+EX0eG6iszf3Vzdw2dtaLIEM0kjhcAkHGF3N9FPTrQBu0VELq3N2bUTxG4C7zDvG/bxzjrjkc+4qWgAorhNW+JlnpXja506aOY6Rpdm0up38FhcXIgmOCkZaJWCYTczFvVfemeIvihbWejM2h2OpS6lPLHDZQ3ej3UYuCxyzKhRXkCIGZtoJAA9RkA76iuTj+JOgz+elrDrlzLbP5c0cPh++LRvgHaR5PynBBwexFdJDfQy6Yl+3mQQPCJj9ojMbRqVz8ytgqQOoPI70AWKKhs7y21CyhvLGeO4tp0EkU0TBldSMggjqDWJ4D1+78T+CbDV9RSFLm58zesClUG2RlGAST0Ud6AOhoqrZalZ6i9ytlcJM1pObecKf9XIACVPvhgfoR61aoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK4fxrDr2k69H4v0S3026g0vSLuK4hvLqSFirNHKSu2NgSBDjkjrXcVyXxMnLeBrvSYD/pmuEaVbIMZZpvkY/RULsfQKaAMx7fxp4sj0Oa/0/QbOwjvbbUHeHUZpJdikPtCmBRnH+1Wnaf8AJZ9W/wCxfsv/AEouqxNf8JaX4YuvDtxosmqx3EmtWsGH1e6mVkJJYFHkKkbVPausg0W5i+IF9rrPF9luNLt7NEBO8PHLM7EjGMYlXHPY8eoBnfDr/kC6t/2MGqf+lktaPizxPB4X0f7QYmur64cQWFjGR5l3O33UX8eSewBJ6VnfDr/kC6t/2MGqf+lktT6d4QZNdvNc1vUW1DVJQ8NpKsflpYQH+CFCW2seCznJYj0GKAOe8OeDfG+hWFzM/izR4ru/ne9vnfRnlJlbqN/2hcqoAUcDAUVsfDbWtb8Q+HbjUtbntrmCW7kXT7iC2MHn26naJChZsBiGI5+6Qe9cl4jl8SwX2m+CPFmoIdB1afyW8QqPLluI8E/ZHCjakr8LvyAy5wNxxXrFtbw2drFbWsSwwQoI440GFRQMAAdgAKAM3xJpep6xpa22ja7Noc/mqzXMECSsyD7yYcEDPr1GO4yDx+veFNI8PeHrnV/FniDxNrUVuoJik1SSMTOSFVFjhKKSzEKBjvzXo1cR8VWa28OaZqkkbSWelaxaX16FBYrAj/M+B125Df8AAaAMPSPhFoZiOv8Airw3Z3eoCMyxaTbxqyQcZ8ssxBnk7FpG256BRzXQeDdahnvXs9J0e3t9GmDyW89lbeSLeRCqyW9xF/yzmU9+jAHgY5662uoL21jubOaOeCVQ8csTBlcHoQR1FENtBbyTPBBHE87+ZKyIAZGwBubHU4AGT2AoAwk1O/PxPm0szj+z10eO4WHYMiUzOpbd1+6FGOleXWniiXxdY6Pq2t/EzwlpFzY3kl1Hp09sm6KRRJEu/NypPysWHA5Ir0iP/ksc/wD2AYv/AEokrzbwB4j0Gz8EWNve/FObRp0aYPYLJYAQfvX4/eQM/vyT1oA6PTPHF83jzw9pEPjbw34lt9TlnS4i0y3VJIQkDyK2Vnk4LKByK7/Xm1mPTDJ4cSzlvI3DeRebgkyDqgYfcY9mIIB6j08uTWdK1P4reCE0vx5J4odLq7LQu9ofJH2OX5v3MSH25JFex0Ac9J4qkt9DstQm8O60Z7slWsobYSSwsOCHwdoHHDZwRjHUVyvhnUvEcOqa3q1z4G1h77VLrIaSe1iSK3jXbBHzNu6ZY/Lw0jdetO8T+I5/EHwh8VXscawQXEk1jpUisQ04LLCj/wDApS23H8O01tvHj4x2gV3EcegSgR7vlz58fOPUAYz7n1oAq+GNW8T6dr50fxbYSNbX0ksmmXiyCdowPmMM7IoAOMlW6EDBORzW+KEmhRar4PfxaLE6QNUm+0f2gqtD/wAec+3cG4+9txnvitL4YpjwbI5JLSarqJYk56Xkyj9FApnimYN8R/BVvvC+TLe3smeiols0RJPbmdaAM/RrD4P+Ib77FoWmeD9Quthfybezt3baOpwF6cisPw94e8EaL4H8Q3+v+FdHuBoepagsjvpkLyOizO8ajI5Ox0VRkfwiuqluodT+Mmki0uI547DQ7uRzEwYKZZoAuSPURsR/u1ye2LV/jZqnha2u4H0eaeHWr5FJ+e5gRENv6E7lt5WHoAD1NAHpGmWWg+GtEe4sNOsdAsmX7ROqQR2yp8oyXC4AIHBJ9K8/1Txn4f8AE2v2E3iDWLTSfDFo4u7OK+kEL6vKrHZLtbB8hGGVyPnYA9AM+o3ENpfwzWd3HDcxMu2WCVQ6kHsynt9ag1fVrHw9odzqepSrb2dnEZJGx0A6ADuTwAO5IFAHPSfFH4fyxtHL4t0V0cFWVrtCGB6gjNc74d8V6b4Pg8mHUI9S8DvMY7DV7eXzV01uv2aYjpGMjY/YEK3Y11Xw80u60zwbC+pw+Rf6hPNqN1Eesck8jSlD7qGC/hVH4dww3Wm+JXdBLBd+Ib/KyKCrASeWfUEEoaAOqvLSz1rSZbW4/fWl3FtYxSsu5SOqupBHsQa8Pu/DPhfVvHE1roHhnXNf0zRcpcpb6jK8U916GSecKPLAPCEsWbBwBz7N4h0efWfD8+l2OpT6SZgqG5tVHmImRuVc/dJXIBHTOR0rmria5027g8C/Dm0tbBrO1SW5vJkLxWETlgmEzmSVyrnBIHBJJzyAQ+HJ/hxoPh7/AISvT7DTtBjZpIpp7qBYbiOQMVeJictuDAgqCc44zxXW+H9et/EmkLqNnb3lvC7sqLeWzQOwBwGCsM7SOQfQ9jxXB/DHwNpFtcavqupR/wBraxDrV4gv7sBmB8wksifdjJJJO0DrXp9AHnPiHwtbQaxIbTwn4m1ZZv3r3Fn4lkhjDMSSoR7pMY9AuOeKu6XLpXgnQm1a/wBK1zTJLudLb7Hc3s2pzMxJCBVWSUck/wAPPrVLxDYTeJfG+oWdloouX06CDzJpPE97p4bzAxAEcCMpxg5J5PFZlveLP4bsLVbBrF9N8YQWckbalLfbnSRcsJZQHIOeARxigBPin45sdR+FfiC0i0rxBE81myh7jQ7qKNeR952jCqPcmu98UXWoxf2RbaQJlmu9TgSWSOLcI4VPmS7jjChkjZM+rjHNbNxbw3du8F1DHPDIMPHIoZWHoQeDUdhqFpqlml3p86XFu5YLIhyCVYqR9QQR9RQB494Rk1XSfhhDrDavqdno0Fk0hXTltnm85bqYMqrOjLhldCenKDnk1p2ukeILKK8itIfiDCl7M884STQRl3HzMOflzjPy45JPUk0nhy0s9V/Z/wBO0S+vksTq7y2UEjwmUGRp5CF2AjOdp7jjPNZK6JpbXVrGdK8EJBc6hPpgun8FARJcxOU2MfteRuZWCnGCRjgkAgHUeBbSeHUH0GLU/FGmrocFu507UItMMckT7wg3QRscfumz8wbvnmvRa4TwZ4bsvCPjHVLdrrSI77U7OCRbDStJNhEscLSAyAeY4ZiZQDg5GFyORWv8Rbq/svhr4hudILi9i0+Zomj+8p2H5h7gZI+lAHDWHjbTPDnxP8Wafp0Fxrtzqs8Vxax6bF5hadIhHLAz8IpTYrElsKH55rs/h34ev/D/AIbn/tny01HUr+41G6hifckLzOW8tT3AGBn1zWfB4Q07VPhfotr4UuI7KSzghvNJvohny5guQ5/vB8kOO4ZqxI/E83jzxV4W0cQT6fqOj3kl9rtoCR9leKMoiFv4kd5QVPRlGexFAHqtc3rnw/8AD3iLUjf6tb3klwVCFodSuYFwOnyxyKv44roncRxs7ZIUEnAya4z/AIW74O/5+9R/8Et7/wDGaAOX0L4deHb34geK9NuY9Re00/7H9mj/ALXux5fmRFn5EuTkjuT7V6J4e8KaR4WjnTRYriNbggyefeTXGSM4wZHbHU9MV53oXxF8O2XxA8V6lcyailpqH2P7NJ/ZF2fM8uIq/AiyME9wPauwsPid4W1PUILGyub97i4kEcavpN3GpYnAyzRBR9SRQB1csUc0TRTIskbjayOMhh6EVzPh3wPb+FNcuZ9Bvp7XR7lCW0bAaCKYsD5keeYxjIKDg5zxjFdRXG678SNPs9RbRfDcD+I/EB4FhYsCsPvNL92Jfrz7UAbXijxRpnhHQ5dU1iUpEpCRxoN0k8h+7Gi/xMT0H9Kj8I3Wu32gre+KLaKyu7mRpY7OPJNtEfuRue7gfePqaxvD/gq8l1uPxP45u49S1xARbQQgi101T1WFTyW9ZG5PbArtaACvH/DPjnRfCvjjxvbeIJLiyiuNdLJevbubYHyYxtaUAhW4z82Oor2CvP8A4exRzeIfiBFMiyRvrzKyOMhh5EXBFAHd2t3b31rHdWU8VzbyrujlhcOjj1BHBFS1z2geB9E8LateXugQy2Md6o82yilItgwP31i6Kx4GR2FdDQB4/wCC/APhbxTrPje98Q6Haahcx+J7qFZZlyQgSIhfplifxrq/+FO/D3/oU9O/79n/ABrlPBfjG38Paz43tJtH12+Z/E91IJNO0uW5jAKRDBZAQG46dcEetdX/AMLOs/8AoWPF/wD4T9z/APE0AVfgb/yRPw3/ANcH/wDRr1a+MX/JHPE3/Xi38xVX4G/8kT8N/wDXB/8A0a9W/jCrN8HfEwUEn7C5wB2GCaAIrb4maPLYQW/hq3vfE12saoY9KgMkanAHzTHESjPq1T6dpXiXxHJdN47g0220qdE+z6TbM8k1u6tuWQ3AK4cH+6OMKQQQc9PpWz+x7PytuzyEK7emNo6VboApaVpFlotl9l06JkjLmR2eRpHkc9WZ3JZmPqSTVeLxRoE4Jg1zTZApwdl3Gcfka1a5ofDfwQCxPhDQnZmLMz6dExJPuVoA1P8AhIdF/wCgvYf+BKf406HXtHubxLS31WxluZASkMdyjOwAycKDk8A/lWV/wrjwR/0Jvh//AMFcH/xNWdP8FeFdIv477SvDWj2N3Fny7i2sIo5EyCDhlUEZBI+hoAv6tpVprelzadqSPJbTgB1jleJjggjDIQw5A6EV4bH4e8Maz4uurnRPCeveIdE0nMKCC/kkhnuAfnkDzzgNsHyqEJyS2f4a9n8T6FJ4k0RtMXUrjT4ZnX7Q9tgPLFn54w3Vdw4yORXO3V5qUuqN4M+H8VrpMGlwxreag8IdLMMuUiii4DyFfm+b5VBGck4oAZod58N/C3hmHxPpdvpmiWl8hVZzAI55Tn5osY3swZcFBk5HSus0TVotf0WDUYLa8tY7hSRFeQNBKoyRyp5GeoPoQa4P4Q+CtFsPD66vLbC81cX19D9vufnkAS7mT5AeI87ckKBkknvXplAHmviW3tvCdxoHh7RrnUdJ0q+F212NMsBfT3DBUOXDRTM2Sx3MRk55NVIU063ltJIPEHjeOSyhNvbOvg9Q0MRxlFP9nfKvyrwOOBW3440iXXdX0W+0y4s5l08TiWJtbn05m8wKAVlgVm42nI4BrktNkutT8Kx6/Bp5W1kt2uFjk+IeqCQqAT08vGTjjmgDofCOou3xKubSHU9XvobjSzcTtq2jrZStIkiopB+zws4CsR/EBntXeapt/si88zGzyH3bumNp61554DsJjr8Hii6a2s7S70kRxwy+IrnUpcuySDJnUbMAYIUnmuu8a61Jofw/1rWbJLe4ktLGWeNJhvjkIUnDAEZB+tAHJeA/HthZ/Dnw3bSaT4ikaHSbWNnh0G7kRiIVGVZYyGHHBBwapfC/xzY6f8N9LtpdK8QSvH52Xt9DupUOZnPDLGQevY9a9Q01UXSrRY4o4UEKBY4k2og2jhR2A7CuU+EP/JKtH/7b/wDo+SgBPhrew6jF4mvLeKaFZtemYpcQNDID5UX3kYBlOMcEeldrXL+H9Uln8deK9K8i2itrF7WSMxRbXd5Ysuzn+I/KOcZ4711FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWKfDUE3jFfEN5czXM0EHk2UEmPLtN3+sZAB95+AScnAwODW1RQByj+FNWv/FVlqOua9FeWGm3Ul1ZWMNgISrsrIhkk3tv2I7AYVck5PpWxr1nrF7YLH4f1aLSroSBjNNZi5Vlwcrs3L3xzntWnRQBi+E/D7+GtB+wz3zX9xJcTXVxctGI/MllkaRyFGdoyxwMmtqiigClrGjafr+lTabrFql3ZzgCSJ84ODkHI5BBAII5FXAAqgDoBgUtFABSOiyIyOoZWGCpGQR6UtFAHFf8ACrNEtLz7R4evdX8PbpPMeDSr5ooHOcnMR3IAfYCu1oooA47WPB2qat4+bWINeutIsxpiWq/2e0fnPIJXY7hJE67MMuMYOc57VJ/whOpf9D94n/Oz/wDkeutooA5L/hCdS/6H7xP+dn/8j1d1fQ9Wn8Ez6NpWtzC+lj8n+0rxVaUKzfO3yBRu2kgEAYOK6CigDjYvBU8ur6dBdy28PhrQvLOmaZbhiZZEUBZJ2OPuHJVBxnDEk4A130GV/HsHiEXQEUemSWJttv3maVHD5z2CEYx/FW3RQB59Z+E/FVtEuhrPpkOhx6w2oC7iuJftTxm7Nz5RTYFBJO0sH6Z45rfg8NSy+OtQ1/VJYZ4nsksLK3C58qLO6XdnqXbb+CCuiooA5a98Gi2s10/wYbDwtaXDk38mnWKJNIuOBGRhVbqNxDEduaj1D4f2C+GrLT/DTf2Pd6XL9p067Qb2jm53F88yBwSHycsCec4NdbRQBy/hHRNas9Q1bWfFMli2p6k0SGPT95iiiiUhFBcBiSWdjnpux700eELnVPEC6n4r1MajFaTmTT9Ohh8q2hwfld1JJkkAxgk4B5AB5rqqKAMHxBpniS/uIW8O+I7fSIlQiWObTRclznqCXXbx9aseGPD8Phfw5a6TbzS3Ah3M882N80jsXdzjuWZj+Na1FABXL614Ru7nXn1zw3rkui6nNAtvcH7OtxDcIhJTfG2OVLNgqwOCRXUUUAcS3hvx/IpV/iBaxgjhoNARWB/4FKw/SuzhV0hRZZPMdVAZ8Y3HHJx2p9FAHIy+ENUm8Zavq9v4jvNKt72K3RI7BLdmYxhgS/nQvj7wxtPrntVC0+HN3D4fvrGXXpWvJdcOsW9+YUZw4ZWXegCq33TkKFHPGK72igDkH0Px3Mhjk8a6fErDBe20HbIPcF52UH6qa3vD2iW3hvw9ZaPYl2gtIhGryHLuepZj3JJJPua0aKAOF8KeALrSbTw2usX0Uv8AYaXLJbQKTG08rtiXccE7Y3ZQMDlyc1Hb6B4t0n7fY2Wn+HdU0241SfUIXvruWORDJOZgCghcEq54IPYdDWxrPjrTdK1E6ZaQ3WramB81nYReYyf7x6LVI/ET7CwbxF4d1bSLZjj7VJEJIk/3ivI/I1qqU2rpEc8V1LFn4Ru5YtEvNc1V59Z0y8muzcwjCssu/dAAefKwygDr+7U8V1TKGUqwBBGCCOtQQ39pcaet9DcxPaMnmCcONm3Gc56YrlX+I1tdzPH4b0bU9cVDhri1h2w57gO2Mn8KmMJS2Q3JLchi+FtjYM8fh/xB4g0KyeQyfYNPvFECknJ2q6MUB54Ugc8U0fCXQra4S90e/wBY0rVBnzdTtb5muLnPXzTIHWTp/EDjtirln8RNPN/HY67Y32g3MhxH/aEW2OQ+zjj88V11KUJR3Q1JPYRRtUDJOBjJ6mlooqRhRRRQAjoskbJIodGBDKwyCPQ1m6B4b0bwtp32Dw9ptvp9tuLlIUxuY9yepP17cVp0UAFFFFABWB4b8Mf8I/qev3f2v7R/bGoG92eVs8n5FTbnJ3fdznjr0rfooAKKKKAK9rYWdiZzY2kFsbmYzzmGMJ5shABdsdWIA5PPAqxRRQBXsbCz0uxjs9MtILO1iGI4LeMRogznhRgDk1LNDFc28kFxGksMqlJI5FDK6kYIIPUEdqfRQBxbfCPwWf8AVaZcWyDpHa6lcwIPoiSBR+VXtH+HnhjQdUh1LTdOdb2BWWOea7mndQwIIzI7dia6aigAooooAKKKKACuU1XwffnX7rWvC3iCTRby+RFvI5LVbmCcoNqOUJBDBcDIYZAGRxXV0UAcSfDfj6QYl+IFtGPW30CNW/8AHpGH6V21FFAHmeo/CWy1u4ntJvD/AIU0fSmcjfp2mI95LHnoJGRRESOpCsR2I61u3nwv8Gvo09rZeEtBjmNu0cMj6fESrbcKS20nOcc8muvooA47Rfhf4SstBsLXUfCfh+4u4LaOOeb+zYm8yQKAzZKZOSCcnmr/AIq8Nf2r8O9U8N6HHa2X2mwe1tk2+XDFlcKMKDhR7CuiooA4638DanFbRRt488SgqgUhDZ4GB2zb9Kr6V8NJNE0yLT9L8beJre1hz5cQe0IXJLHk25PUk13NFAHI+EfCN/4c8SeIb6+1WbVItTNsYZrllM/7tCrB9iIo5PGB06111FFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVy3iPxRdQakmgeGLdLzW5lDN5mfKtEP/AC0kI/Qd/wAgajFydkJtJXZ07yJEheRlRR1ZjgCmQ3Vvc5+zzxS7evluGx+VcW3gHTDD/aHjvVptWmyC73dwYbeNiQAFQEADJwPUmorjwd8PJQGtprOwnX7lxZ6h5bofUfNj8xV8tNac34f8Em8+x1fiHXrTw3os2pX5YpHhUjT70rnoijuTXMW/hjW/FqC98ZX9xZW8nMWj2MhjWNe3mOOWOO3b9K5i+vF0HxdosvinxBFreg2bsba58xGeCVuFMwBy2McN/wDqr1H+39H/AOgtY/8AgSn+NW/3SXLu+pK996nNv8KfDcS7tIF7pNyPu3NpeSBwf+BEisXWPEPi3wwv/CO3hS/u9SZYNK1VVCZLMFIkXoGAOc/z5rvv7f0f/oLWP/gSn+NZV/8A8I7qWv6ZqtzrVsZNM8wwxC6j2FnABYjqSAOKI1m3+81QSp6e7oXfDPhqy8L6StnZDfI3z3Fw/Lzyd2Y/5xWs6LJGySKrowIZWGQQexFUf7f0f/oLWP8A4Ep/jR/b+j/9Bax/8CU/xrBycndmiSSsjzew8LJqvjbVdA064mXwlZzpNdWgbCG4IyYVPXbnkjtjHoa9TtraCztkt7SFIIYxtSONQqqPYCs631Tw9aeb9lvtMg86QyyeXNGu9z1Y4PJPr1qb+39H/wCgtY/+BKf41pUqOZMYKJNqWmWWsafLZanbpcW8ow0bj9fY+4rk/CVzd+HvEFx4O1Sd7iOOL7RpdzJy0kOcFGPcr/L2xXZwzRXEEc9vIksUih0kRgyupGQQR1BHeuI+JM50a58O+IYoZJpbLUBCyQjLvHIpDKPUnAAHqadL3v3ff8xT0947qisvQfEem+JbE3WlT+YEbZLG67Xib+6ynkGtSsmmnZlppq6CiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiuauvGcLXj2egWNxrVzHw5tsCJD6NIeB+Gaj/ALW8YIPMbw1bSL/zzS+UN+ZGK5/rFO+l36Jv8jo+rVLa2Xq0vzOprH1rxPp+iSR283mXF5L/AKq0tk3yv+Hb8axrv4gQW9hPHJY3Nrq6gLDY3MZBkdjgbSOGGT7Vq+GvDq6Pbtc3jfaNVuvnu7luSzH+Eeijpj2qfbe0fLSfq+3/AAS/Y+yXNWXou/8AwCl/wkniMjzF8HT+R1yb2MPj/cxnPtV/RfFVhrM7Wqia0v0GXs7pCkg98dx9K2q5Xx/pa3nh5rq2tpZNSt2X7K9up8xWLAYyO2Cc0pqrSi5qXNbo7fhZf5hB0qslBx5b9Vf8bt/oRyahqnizUJ7XQrk2GlW7GOa/QZeZx1WP0A/vVL/wgVoq74dW1iO57XH2wls+p7Vt6JpiaPodnp8YX/R4lViowGbHzH8Tk/jV6nGgpLmq6v8AL0CWIcHy0tEvx9TjD4lvfCU72XixzdQlGa0v4o8GbA/1bKOje9SQ6TrviX/Stcv7jSrOQZisLJ9jhT/z0fGc+38q09U0GXV/Eun3N28badYqZVgydzz54JGMYA569e1blTGjKTcZt8q2/wCD38vxKlWjFKUEuZ7vt6dvP8DlX8EtajzdC1zUrK4XkeZMZY29mU9as6Dr9xcX0uja7Cttq1uu75P9XcJ/fT+o/wDrgdDXL+ObVotMh1y0GLzSZBMhHVo84dT7EfypzpqivaU+m66W/wAxQqOu/Z1Nb7Pqn/kdRRUdvOlzbRTxHMcqB1PqCMipK69zj2CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAON+Lf/ACS3V/8Atj/6OSuN/wCEC8Nf9A3/AMjyf/FV2Xxb/wCSW6v/ANsf/RyVn16OHk1S07v9DkqpOevY53/hAvDX/QN/8jyf/FUf8IF4a/6Bv/keT/4quiorfnl3M+Vdjnf+EC8Nf9A3/wAjyf8AxVH/AAgXhr/oG/8AkeT/AOKroqKOeXcOVdjnf+EC8Nf9A3/yPJ/8VR/wgXhr/oG/+R5P/iq6Kijnl3DlXY53/hAvDX/QN/8AI8n/AMVR/wAIF4a/6Bv/AJHk/wDiq6Kijnl3DlXY53/hAvDX/QN/8jyf/FUf8IF4a/6Bv/keT/4quioo55dw5V2Od/4QLw1/0Df/ACPJ/wDFUf8ACBeGv+gb/wCR5P8A4quioo55dw5V2Od/4QLw1/0Df/I8n/xVdL8IbeO00LW7e3XZFDrdwiLknChYwBk+1Mqf4U/8gzxB/wBh65/klZV5N0ndl00lNWOn8S63F4c8OXmqTjcLePKJ/fc8Kv4kgVneB/D8mjaMbrUd0mr6kftN/K/3i55CewUHGPrVDx4Df634V0Tgx3mo+fKufvJCu4j6c12lcT92ml3Olay9Dz/4w2lvf+HtCtr2CO4gl8RaejxyqGVlaYKQQexBI+hrW/4Vf4E/6E/RP/ACP/Cs/wCK3/II8Pf9jLpv/o8V3VYlnK/8Kv8AAn/Qn6J/4AR/4Uf8Kv8AAn/Qn6J/4AR/4V1Vc/46hmk8EatJbX93ZSW9pNOHtJPLZisTEDdjcBnBypByBzjIIBV/4Vf4E/6E/RP/AAAj/wAKP+FX+BP+hP0T/wAAI/8ACtHxRZNeaT8qatcCJw5tNJuxbTXHbHmF48AZ3cOudvfocXS76/m8D2tlFdzHU724mtY5JGLy2iiR872IyXijGMn7zqvJ3ZIBZ/4Vf4E/6E/RP/ACP/Cj/hV/gT/oT9E/8AI/8KoWguNW8O+DNNuNQvI4rywSa7liu5I559kCnb5qkPkswYkMCdvXk53PCM07aTcW1zPLctZXtxbJPM253RZDsy38RC4UnuVNAFL/AIVf4E/6E/RP/ACP/Cq2o/DLwNHpd06eEdFVlhcgixjyDtPtXZ1V1P8A5BF5/wBcH/8AQTQBzHwjUL8H/DAUAD+zozwO5GTXXvGkoAkRXCsGG4ZwRyD9a5H4S/8AJIfC/wD2Dov5V2FAHDeMdLk8P3n/AAmmgR7bm2x/aNvGOLuDI3Ej+8o5z7e1dnZ3cN/YwXlq4kguI1kjYd1IyDT5oY7iCSGZQ8cilHU9GBGCK5H4YyOnhOXTZWLvpV9PY5PXCNkD8mFbN89O73X5Gfwy9TsaKKKxNAooooAK84TS7O+1PVZLqHe4v5lB3EcZ9j716PXB2X/H9q3/AGEZv515uOipOCavuepgJSipuLtsQ/8ACP6Z/wA+3/kRv8aP+Ef0z/n2/wDIjf41pUVxexp/yr7ju9tV/mf3mb/wj+mf8+3/AJEb/Gj/AIR/TP8An2/8iN/jWlRR7Gn/ACr7g9tV/mf3mb/wj+mf8+3/AJEb/Gj/AIR/TP8An2/8iN/jWlRR7Gn/ACr7g9tV/mf3mb/wj+mf8+3/AJEb/Gj/AIR/TP8An2/8iN/jWlRR7Gn/ACr7g9tV/mf3mb/wj+mf8+3/AJEb/Gj/AIR/TP8An2/8iN/jWlRR7Gn/ACr7g9tV/mf3mb/wj+mf8+3/AJEb/Gj/AIR/TP8An2/8iN/jWlRR7Gn/ACr7g9tV/mf3mb/wj+mf8+3/AJEb/Gn6Xp9rYeMNJ+yReXv87d8xOcRn1PvV+obf/kcNG/7b/wDouj2cIyi0luvzQe1qSjJOT2l18mdtXJ61cXPiPXG8O6dLJDaQqG1O5jPIB6RKfU9/b8RXRanfJpmlXV7L923iaQj1wM4rI8E2D2nhqK5uctd6gTd3DnqzPyPyGOK9er78lS6bv07fP/M8alaEXV67L17/AC/Oxx2t+HI734r6V4ctNT1bSNMTQprjyNKv5LYNIs8ahm2nk4c5J5PHpWx/wqq0/wChs8Y/+D+f/Gi6/wCTgdN/7Fq5/wDSmGu6rdJJWRzttu7PPbr4OaRfeX9t8ReK7jy23J5utyvtPqM9DVj/AIVVaf8AQ2eMf/B/P/jXZ3hultHOnpC9xgbBO5VOvUkAngc4xz0yOtc+/ie4tPh/baze/ZPtkyxR5JMUPmyOIwxySQgLbjyTgGiyvcLu1jM/4VVaf9DZ4x/8H8/+NH/CqrT/AKGzxj/4P5/8a1dG1DVtb8OzTadr/h6+n87bBqNjbvPbMoxkNGJshhyOJD2PtVjwteave297JrN1Y3SR3Tw201naPbh1T5XJVpJP4w4BzyFz3piML/hVVp/0NnjH/wAH8/8AjR/wqq0/6Gzxj/4P5/8AGrT+LJrjxi2mWeraDbJDdLb/AGG7k/0q7G1TI0eHG3buIAKNuKnlRzU2r6t4k0/UluEi09dON9BaRWjqzXF0HZVaRZA+1Nu5jsKHiMklQeADP/4VVaf9DZ4x/wDB/P8A40f8KqtP+hs8Y/8Ag/n/AMalPim/PjaewfVbC1sI71LWOF9JnkeTMcZKm5EojjdmZgoZcnAwGrtaAOF/4VVaf9DZ4x/8H8/+NRfDJbnXvgpZw6je3F3PdRXUL3N1K0sjZmlUEsxycDA+gFd/XC/Bf/kkej/79z/6UyUmk1ZjTad0EMOseAbO2kmun1XR0RUuUI+e1PTcnqg9OwrtoJ4rm3jnt3WSKRQ6OpyGB5Bp0kaSxtHIoZHBVlI4IPUVy/g0tpt1qnh2VmYadMGtixyfJk+ZRnvjmuaMfYzUF8L28mdU5e3g5v4lv5r/AIDOqooorqOQKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDjfi3/AMkt1f8A7Y/+jkrPrQ+Lf/JLdX/7Y/8Ao5Kz69Ch/C+b/Q5avx/L/MKKKK2MwoorFl8Y+GIJnhn8R6THLGxV0e+iDKRwQQW4NK6QzaoqG2u7e9gWezniuIW+7JE4ZT+IqR3WNGeRgqqMszHAA9aYh1FZ9jr+j6ncNBpurWN5Mn3o7e5SRl+oByKNR1/R9HkRNX1WxsXkGUW6uUiLD1AYjNK6HZmhRWH/AMJv4U/6GfRv/BhF/wDFVr2t1b3trHc2c8dxBINySxOGVx6gjg0XTCzJaKKKYgqf4U/8gzxB/wBh65/klQVy/hH+1Nevta8MafLJZWR1ae61G8iOHMZKqsSHsWKNk+n4gzUjzU2VF2kjrdW1Wwvfi/4Xgs72C4lgjvFlSKQMYmMfAOOh4P5V3tcxF4A0SzutIn0qBbBtLlMgMSDdNlSpDseT9TXT1wVJRdlHov1Z0xTV7nC/Fb/kEeHv+xl03/0eK7qvPfjLPcW/hrRJbK0N5OniGwaOASBPMYSghdx4GSAMnpnNWP8AhLvHf/RM5/8Awd2v+NZFndVl+ItEPiHRZtN/tO806KcMkz2YiLyRspVkPmI4AOeoAPAweueZ/wCEu8d/9Ezn/wDB3a/40f8ACXeO/wDomc//AIO7X/GgDoZtBup9Lt7Y+ItWS6t2LDUIzAsr5zwyCLymGDgZj4wD1yTCPBHh6XS4bHVdLtdYSKSSYSanAlw7SSNud/mXALE9gB0AAAArE/4S7x3/ANEzn/8AB3a/40f8Jd47/wCiZz/+Du1/xoA1YvAulWXh/TtL0ZpdJ/s0hra6sUiSVX27GcgoUYsCd25SCTnGQCNjSNKt9F01LK1MjqrPI8krbnld2LO7HuWZiT254wK5L/hLvHf/AETOf/wd2v8AjR/wl3jv/omc/wD4O7X/ABoA7qqup/8AIIvP+uD/APoJrj/+Eu8d/wDRM5//AAd2v+NV9Q8WeOW025V/hrOimFwW/tq1O0YPOM0AaXwl/wCSQ+F/+wdF/KuwrjvhGc/CDwxkEf8AEui6/SuxoAK4z4bHzbPxBdL/AKu6126lT6EqP6Vo+N9fOg+GZntSW1C6/wBHsYl+88rcDA9s5/Csj4YNNpmm33hbUVVb7R5zuZf+WschLq/v1P6VvGL9k5f1/Wxm2udI7miiisDQKKKKACuDsv8Aj+1b/sIzfzrvK4Oy/wCP7Vv+wjN/OvPxnxQ+Z6WC+Gfy/MuUUUVynWFFFFABRUMd7azXc9rDcwyXFuFM0KyAvEGBK7l6jODjPXFNvtQs9MtWudSu4LSBfvS3EgjUfiTigVyxRVTT9V0/V7cz6Vf219CDgyW0yyKD6ZUkVYmmit4JJriRIoo1LvI7BVVQMkknoAO9AD6Khs7y21C0jurC5hureUZjmhkDo49Qw4NTUAFFFFAwqG3/AORw0b/tv/6Lqaqcl5b6f4k0u7vJVighWdndugHl1Mmk4t91+aKim1JLtL8ma3xDkZPAt8qcGQxx59MyKDXRwxJBAkUY2pGoVQOwAxXnnia98QeJvC95cWenx2mkqFlQTgm4nAYMGCjhR35r0OGTzYI5NpXeobawwRkdK9GlNTrSktrL82eZWg6dGMXvd/kjiLr/AJOB03/sWrn/ANKYa7qvL/FfiSy8M/HLTLvUYrySNvD08YFpaSTtk3EZHCAnHynntx6itb/hb3hz/nz17/wSXP8A8RXWcZ2V895HYyNpkEFxdAfu4riYwoxz3cI5HH+ya5WDw3q1/wCBY9I1u10yK7s5oZrcR3D3MMhikWRd+6NCASu0gA4BznNV/wDhb3hz/nz17/wSXP8A8RR/wt7w5/z569/4JLn/AOIoA2dF0zVbZtW1C9isLbUNQKlbe1kaSJCibVLSFFLE9zsGAAMHGTNp+l6jo/hPTNM02a1N1aRQRSy3Cs6uFwJCMEHcRuwT3OSD0rA/4W94c/589e/8Elz/APEUf8Le8Of8+evf+CS5/wDiKAJ7zwlfvqN7b2cGmDTdR1GHUZ7mQsLiNkMbFQgQhyTHw5ddu7occ22t/Ey+KpbxtL0i7tfMCW08upyJJbwkDdtjFuRuJyT8/PyjIArN/wCFveHP+fPXv/BJc/8AxFH/AAt7w5/z569/4JLn/wCIoA0dV0XWdSvJLEQ6XBpMt7BdyXUTutw3luj7THt2liYwPM3jA/hyK6muF/4W94c/589e/wDBJc//ABFH/C3vDn/Pnr3/AIJLn/4igDuq4X4L/wDJI9H/AN+5/wDSmSj/AIW94c/589e/8Elz/wDEUz4JSCb4P6LIm4BmuSNwwf8Aj5l7UAd7XLp+6+LMqrwJtGDuPVhNgH8q6iuP0O9g1X4la3cRSKfsdvHaKO7fMSxHsGGK5q7XNBef6M6aCfLN9LfqjsKKKK6TmCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA434t/wDJLdX/AO2P/o5Kz60Pi3/yS3V/+2P/AKOSs+vQofwvm/0OWr8fy/zCiiitjMK4b4eabY3OjanJc2dvM51i8G6SJWP+tPciu5rj/ht/yAtS/wCwxef+jTUP4kUtinrlhb+DPEWk61ocS2drf3qWOpWsK7YpBJkJLtHAZWxyOoOKm12IeKfiDbeHLvLaTYWYv7yHOFuZGfbGjjuowWx0PGaf49kF/qHh7QLY77u51OK6dByY4ITvdz6cgAZ6k03jSvjQXuBsi1nSwkEhPDSxOSyfXawP4VL3t0K6XNHxD4NsNV0Z4tNtrfT9RgG+xu4YxG1vKPukFRnGQAR3Fa62Ed1a251a3tbm5WNRIxjDLux823I6Zp2qalbaPpN1qN8+y3tYmlkPfAGePepLK6W+sILuNJI0njWRVkXaygjIBHY89KuyuRrY4zwXpenya54tWSxtnCauVQNCp2jyk4HHFdvFFHDGscKLGijCqgwB+Fcl4I/5DvjD/sMH/wBFR12FKGw5bhRRRVkhVn4S2yf8IfLqm0ebqt5Ncu3r85UD/wAdP51WIyMGrnwmmH/CBx2JP73T7me2kHowct/JhWVe/sn6r9TSn8Z21FFFecdRwvxW/wCQR4e/7GXTf/R4ruq4X4rf8gjw9/2Mum/+jxXdUAFZ+ta7pvh7TmvtYultrdc87SzMQpYhVUFmO1WOACcAntWhXNfELVNP0rwBrL6pfW1ks9lPBC1xMsYkkaJ9qLuIyxwcAcnFAHQXV1DZWc11dyLFBBG0ksjHhFUZJP0ArMuPFOk22i2OqPNM9tqCo1qIbSWWWYMu8bYlUvnbyRtyO+Kzdc1T+2NM02fQLKTxHpNxOZJ5NLuLZ1dYzwu6SVFIMgGcE8Iykc1naPrltb/CnQzrGoXPhQS2cEUd7MYPk2opDb28yJQwBxv5wegPQA6G48XaPb6TaakZbme3vJjBALWymnkaQBiy+XGhcEeW+QQMFSDg1pWN7FqNjHd26zpHKMqtxbvA45xyjgMv4gV59bnRz4S0i41zWX0zT4dQuyt8ZZLcXm5pR5vn7gYvM3FwwYZ3EKcMK6rwXcXFz4ZR7mWadBcTrbTzkmSa3ErCJyTycoFOT1GD3oA36q6n/wAgi8/64P8A+gmrVVdT/wCQRef9cH/9BNAHM/CX/kkPhf8A7B0X8q7CuM+EE0U/wg8NGGRJAlhGjbGB2sByD7j0rs6AKlzpVjeahaX11bJLc2W828jdY9wAbH1wK5e7H9nfGXTpY/lXVdNlhkHZmiO4H64OPpXZ1xviL958VvByryYo712HoDEAD+dbUm22n2f5XM57X80dlRRRWJoFFFFABXB2X/H9q3/YRm/nXeVwdl/x/at/2EZv515+M+KHzPSwXwz+X5lyiiiuU6wooooA4vw3/wAla8bf9cdO/wDRclVPDNjb+M/Eer+I9bhS7is72Sw0uCYB44I4zhpAp43O2eTzgAVb8N/8la8bf9cdO/8ARclRfDTbp/8AwkOgTDy7rT9Wmk2E8tDKd8b/AEIJ/Ktn1a7IwWrSfdmjfeEFi8TaZrfhxbfTriKXy79UXYt3bEHKsFGCwO0qT09aj+Ikpm0C30SIkS67eRWHHURsd0p/79q/51tavr1nos2nw3fmNLqN0trbxxLuYsQTkjsoAyT2rj9c/tnXPinDF4cmsUbw7Z75Gvo3eMS3GQBhGU7vLXrnox9amN2030KlZJpdTR8DBdJ1TxD4aVFjjsL03NqijAEFwPMAA9A/mD8K7GvNiviDQ/iho2q+JJtNli1aF9JZrCKSNVYZlj3B2bJJDAYx1Nek0p73HB6WCiiioNArJOnR+IfG1lYTrvtbGI3U4PRiSAqn8Rn6VrVF4NAPi/xGW+8otgvsuxv60lFTnGD2b/LX9AcnCnKcd0vz0/U7UDAwOBRRRXtnhHC3X/JwOm/9i1c/+lMNd1XC3X/JwOm/9i1c/wDpTDXdUAI7rHGzyMERQSzMcAD1NUbjXtHtdHXV7rVbGHTWVWW9kuUWEhvukOTtwcjHPNWrm1t723aC8gjuIWILRyoGU4ORweOCAfwrJ8JukPgvT3chUSDJPYAZoAnsfE+g6pY3F7pmt6deWtt/r57e7jkji4z8zAkLxzzVvT9SsdWskvNKvLe9tZM7J7aVZEb6MpINcbJBJqHw8g1aSGOafULu21WW3uJFj84GWN0hyxC7ggjRcnBZVB6k1Y8L6pFHq3iS+v44tHtpb+CMxXE0Y23DRIpVmUlDIcxjCs3OBknNAHSS67pEOsR6TNqtlHqUo3R2b3CCZx6hM7j+VLNrmk2+rxaVcapZRajMu6Kze4RZpB6hCckcHoO1efamPM1DUr9byD+xU1yD7XZtGoumuY3jUFH7AsqEKQWYHhlBArpr3R7PVtQnsbG2jji+3wXupXRyWaaMo6In+1hEyeiqcDk/KAbUuu6RDrEekzarZR6lKN0dm9wgmceoTO4/lV+vMNTHmahqV+t5B/Yqa5B9rs2jUXTXMbxqCj9gWVCFILMDwyggV6fQAVwvwX/5JHo/+/c/+lMld1XC/Bf/AJJHo/8Av3P/AKUyUAdZrLaguj3H9jRpJfFcQiRsAEnGfwGT+FchJosfg2/8O3sDliZTZX0p/wCWvm5IY+wbJ/Ku9rl/iN8ngm5nH34JYZE+vmKP61yYmC5XV6pafLX8TswtR86pdJOz+en4HUUUUV1nGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBxvxb/wCSW6v/ANsf/RyVn1ofFv8A5Jbq/wD2x/8ARyVmTTR28Ek07rHFGpd3Y4CqBkk16FD+F83+hy1fj+X+Y+isJfHHhRlDDxNo+D630QP5bqp2/wARPDc2sXlo2taVFBbJGUuW1CLbMzZJCjP8OBk57+1acy7kWZ1NcjB8P0s5Lg6f4l16ziuLiS4aGGaEIGdizYzETjJ9a2rDxPoWq3n2TS9ZsL242F/LtrhJCFHU/KT61LBrVjcahdWIlMd1a8yRSqUO09HXP3l/2hkZ4odmPVFbRfDGnaFLNcWwmnvLgATXl1KZZpAOgLHoPYYHtU+t6Fp/iCxFrqcJdVcSRujFHicdHRhypHqKbqOv2OmLbNNIJBcXMduvlMp2s5wCckcetXVu7d2CpPEzHoA4JNGmwtdznF8B2k0sZ1fVtW1iCJxIlrf3IaIMOhKqq7sf7Wa6miqWsapDoukXGo3KSSRW67mWIAseccZIHf1oskGrItK0O20i71K4tnlZ9SuftMwkIIVtoXC4AwMKOua0qpHVrRNZXS5HaO6eLzYw6ELKB12t0YjuByAQau01boAUVRj1e2l16fSIxI1xbwJPKwHyIGJCgn+8dpOPSl0zVINVhmktw6GCeS3ljkGGR0bByPfgj1BB70XQF2uX8GaxdeFtY1nV7wM+gXWrTWt06KWNrIpBSQ/7J34P0+gPUVyHhtP7e1pvDDjdaSa/d398nZ44wmxT6gt1/Cm7OLT2F9pWPaNP1Ky1WzS6026iuoHHEkThh/8AWPtVmuVuvht4YuL43cdg1nMxyxtJnhDd/uqcfpXVV5kuX7J2K/U4X4rf8gjw9/2Mum/+jxXdV578ZbMX/hrRLZp54BL4hsE823kMcibpQuVYdCM5B7EA9qsf8Ksh/wChy8Z/+D2WoKO6orhf+FWQ/wDQ5eM//B7LR/wqyH/ocvGf/g9loA7qiuF/4VZD/wBDl4z/APB7LR/wqyH/AKHLxn/4PZaAO6orhf8AhVkP/Q5eM/8Awey0f8Ksh/6HLxn/AOD2WgDuqq6n/wAgi8/64P8A+gmuP/4VZD/0OXjP/wAHstV9Q+F8Mem3L/8ACYeMW2wucNrkhB4PUUAcv4Jsbjwf8NfDfi3Q97WsljCdYsQcrImMGZR2Zfbr+efZbW6gvbSK6tJVlgmQPHIp4ZSMg1yPwohjl+DXhqKVd8cmmxhlbkEEcj6UfDaR7TTtS8PTFmbRb6S3jLfxRMdyH9T+lbP34Xe6/Iz+GVu52dcXpx/tn4ualepzb6NZLZKexlc72I+g4Nafi/xOvh6wSK0jN1q16fKsbROWkc/xEf3R1JqTwf4e/wCEb8PR2sriW8lYz3k3eWZuWOe/p9BRH3YOT66L9QesrdjdooorE0CiiigArg7L/j+1b/sIzfzrvK4Oy/4/tW/7CM3868/GfFD5npYL4Z/L8y5RWXqfibQ9FukttY1ixsJpE3ol1cLEWXOMjcR3rH1n4leF9M0a5vLTXNJv54kzHbRajFulbOAOpx1644rmUW9kdLlFbs6yisD/AITzwiEy3inReBkgahEf/Zqu3XiDTrXRY9Xacy6fIFYXECGRQjdHO0HC9y3QDk0cr7BzLuJZaBa2HiLVNZhkma41RYVmVmGxRErBdoxkfeOck/hVXW/COn61fRah511p+pQoY0vrCbypdh52k4IZc84YEVrC+tCiOLqEq6hlYSDDA9CPUVS07xFp+pteLFKIzZ3LWz+a6jcygHK4JyvzD0+lO8txWjsU9J8G2OmaoNUubu+1bUUQxx3WozeY0SnqEAAVc9yBk1d0nQbbSLzU7uCSaWfU7n7TO8xBIO0KqDAHygKMA5PXmtGORJV3ROrr6qcinUnJsailsZfiDw/aeI7GG2vXmi8i5iuopYCA8ckbblIJBHt06E1qVltr9ut5qlt5F076XFHLL5cW/wAwOGICBSWY/KeMemM1dsb621KxhvLCZJ7eZd0ciHIYf57UO9gVrk9FUtZ1a20LRbvU74t5FrGZGCDLNjoqjuScAD1Ipt1rFvZT6dFcpLGdQk8qJivyo+wsFY54J2kD34pWY7ov1n2N4mi+P4JJ2CW+qweQSTgCVTlSfqDj8a0KwvEUdjJcWv8Aau4WqxTuxQ4YEJlcH1yBis5ycLSW6a/OxpCKneD2af5XPTaK4jRtR8aWOk2st9psWrxSxKw8uYRzxgjjdnhjjHTnnmuu0+5mu7CKe5tHs5XB3QSMCU5x1H517FKsqnRr1X9I8arRdPqmvJ/0zjrr/k4HTf8AsWrn/wBKYa7qvL/Fdlrl98c9Mj8OaxBpVwPD07Gaaz+0Ar9ojyu3cvUlTntg+vGt/wAI78SP+h+03/wQD/49WxgdlfWFnqljJZ6naQXlrKMSQXEYkRxnPKnIPIqtpvh7RdGsprPSNIsLC1nJMsFrbJEkhIwSyqADxxzXLf8ACO/Ej/oftN/8EA/+PUf8I78SP+h+03/wQD/49QB2c1haXFg1jcWsEtoyeW1u8YaMr/d2njHtUdtpOnWWnxWFnp9rb2cJBjt4oVWNCDkYUDA55rkP+Ed+JH/Q/ab/AOCAf/HqP+Ed+JH/AEP2m/8AggH/AMeoA6qTQNGm1hNXm0mxk1KMYS9a2QzKOmA+Nw/Oqs3g3wxcaqdTuPDekS35kEpu3sYml3jo28rnIwOc1z//AAjvxI/6H7Tf/BAP/j1H/CO/Ej/oftN/8EA/+PUAdVJoGjTawmrzaTYyalGMJetbIZlHTAfG4fnWhXC/8I78SP8AoftN/wDBAP8A49R/wjvxI/6H7Tf/AAQD/wCPUAd1XC/Bf/kkej/79z/6UyUf8I78SP8AoftN/wDBAP8A49WJ8AdVnl8CJpF6ytJavLJE4XbvjaaTPHs2fzFTKSi0n1LjByTa6Hqtct8QD52gW+nj72oXsFuB3+9u/wDZa6muTLf8JB8QU8sbrLQlbe3ZrhxjH/AR+RrHEaw5P5tP8/wNsNpPn6R1/wAvxsdZRRRXQcwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHG/Fv8A5Jbq/wD2x/8ARyVn1ofFv/klur/9sf8A0clZ9ehQ/hfN/octX4/l/mcZceKtQh8LzX73Gn2skWsSWD3FzGfKjiW4aLew3rzgAn5gKzbDWINPub+eH4heEXkv7j7RMzwA/NsVAB/pXQKgwPrQVlbwfc+R9sBXxPO7SWVuZpYlW9di4QK2cAf3T9Ku/b/+pk8Y/wDhPf8A3FRcDf8ACmrz654XtdRuWgeWbeC1uCI22uygqCW4IAPU1TTU9O1GG9HijSorW50+IrcpcxiaPyn/AIkfHzI230B4IIGKk8CQTW3guyjuknSUNKSLiIxyHMrkFlIGCQQcYHXpV46vnxKdLiiDJDafaLmctgQktiNfqwEh9gvvVrZXJ6nArbeCrrxg86eHreTT7S0EcSWuhvKtxLIdzNhIjnaqKAT/AH2rW0JNAg8UCCXwnZaZI7l9Mvf7LW3MmBkpyMiQDJ/2hkjoRUuk3t5Po/hCeS8nb7dqErO5kOZYmhuZUBz1Hyocewrb0FmkvNa8+R5fK1NhH5rlvLHkx8Ln7o+Y8Djk+tRFFNmV4v1QWfiXRLW58RNoNlPBdSSTCSFN7oYdikyqw/jbisvxBCuseB9cl0fxxc6v9mtHkaKJrKRCVUsFby4cjO31Fbmq3Vvb+PbO6vJkgttO0q4lmldsBPMliCk+37t/yqHSNS0y+ufEutvcQtpDmOL7WWxHJGkQ3EN0IBdhkdwRTeraEthJ9N+0XWmwz+LtZae6DS2mILTcML8zBhb/AC/K2M5A5x3xWp4h8SW+gWqxgG71CZT9mtFI3ykDlm7Kg6sxwB+QrnPhrG89rLfanKxubCJdOgSaMxtDbKqurMD0aQFWJ9Ao6g13EcNq84vYo4WlkjCidVBZk6gbu45z6c043auhPRnGeHfFPhTSbKR73xVpdxqN5IZ7ycXCgPIQBheeFUAKo9B65pkniLS08RSat4U1C11UyxA6np1pKHkkRcAToo6uoOCP4lwOoFa3nLrXj6L7KQ9tocUgmkXkG4kAAQH1VAxPpvWn3n774maUo6W+l3ch/wCByQAD/wAdP5UtbD0NjTdUstYsI73TLmO5t5PuyIfzBHUEdweRXP8AwsIX4ua6X4DpdLGT3ImQkD8K6iOKOFSsMaxgsWIVcZJ5J+tcXYXtv4dc+J2ePzbLxLdwywbgHmhkRA20HqV6/jW1m4OPcjaSZ7zRXDw/EW6ntUvovCGtSae671nREZin94ID6e9dLoXiLTPElj9q0m5WZVOJEIw8Tf3WU8g15kqc4q7R2KcXscx8Vv8AkEeHv+xl03/0eK7quF+K3/II8Pf9jLpv/o8V3VZlBWN4t1DU9J8L31/oqWjz2sEkxN2W2qqIzZ2ryxyAMZXgk54wdmsTxfaarqPhe90/Q7ezmuL2GS3Y3ly0CRq6MpcFY3LEEj5cDPPIxyAXNa1B9M0qWe3iE10xEVtCTgSSsdqKT2GSMnsMntWXb3uuar4M0nVLPUNM0+5ns4rm7e5sXmi+aMM21RMhUAk9Wbj86feaLqWu2un3F/fzaFqFo7vt0qWK5QEgqDung5O0nkIpG5hyOTSg8K6jD8MI/DMuo/bLlrSO1lmnKqoTCrIqlEXgLuC5GTxk96AG2+s+JJ9F0aENp41bVWkk+0NZyLDDAoLBjD5u7cVKAr5gwWPPGDteHdTuNU0tnv0jjvLe4ltrgQ52F43K7lzyAwAYA8gGote0/UZbjT9Q0P7M93Yu/wDo91I0Uc0brtZS6qxUg7WB2t93GOciXw7plxpelsl9JHLeXFxLc3DRA7A8jltq55IUEKCeSFzQBq1V1P8A5BF5/wBcH/8AQTVqqup/8gi8/wCuD/8AoJoA5n4S/wDJIfC//YOi/lWGsniKL4neKrTwrBZsbgWjzXF252258rGQo5Ynk/hW58Jf+SQ+F/8AsHRfyqLwC39par4m8QLzHf6h5MLdnjhXYrD2OT+Vb0nyxk/63M5q7SNDw74Oj0m+k1bVbyTVdamXbJeTADYP7sa9FX/PtXS0UVlKTk7stJJWQUUUVIwooooAK4Oy/wCP7Vv+wjN/Ou8rg7L/AI/tW/7CM3868/GfFD5npYL4Z/L8ylr2q3Om6joUVt5Zjv8AUPsswdSSF8mWTKnIwcxj161x2u62dV1G/wBM1Xxb4b0WLT9TjaO1vIsySCMxyoXJuEypbGQFH3etdL4t/wCQt4T/AOw0P/SW4rBE01rr2uedqfijTBLfl44rDRTcROvlxrvD/ZpM5Kn+Lt0rKPc1k+ha0zxhPceKtM02LxL4d1uK8MolTTISskQWMsDnz5OCRjkV0Wv61LoUcV1LYSXOnAkXc0J3PbjjD+Xj5k67iDkDnB5xyloZ7zxxoMsWoeItSigacynU9INtHCDEQDu+zxck8YJP0ruNS1C30nS7rULxtkFrE0sh9gM8e9KVrocW2nqcX4xPg3TtPuYm0PSr3Vre0AtLZtNWVhnPlj7hwu45/OslNJ8Maf4btLbQ/BcWs3lpHGkj3Xh6RftQUYciWSMDccEgkkZ4PWurfUb+51/wrFOGsrie3mur2ySQkKBEow3rteRRz3qjHdXT+GreV7y5Mn/CTSRbhMwPlrqDxhCQcldqgYPBFUm0iGk2zofDL6PLoMEvhy1gtLKQkiCGFYvLfOGVkA+VgQQR6iuE8LeILLUPDOm3GpfFF7e/uYEee3Nzp4KSEDK7XhLDnsa9IvbmLTdMurptqR28bzP2AwCxJ/nXnr3tjafDLRvCTXMT6zPZ2MP2DdmQ7jHvO0c7QNxz2ANKOpUtLF2y0PUYviFq9qfFWrI01ha3AlWK03SfPMhBzBjjC4wB97knjG54WhtbfSX1K2128v7C4BkVryOGJI/mYsyhIkxkkkk5B6jrk858QLsDxTpltp16be4uIWsdSlRS32a1ndArkjhGLrtQnuxPQGu5Sy0+Owj0fyYGtltxEto4DAxABcbT1XGBRLZBFatLocNqHi7Q9a1+0fVtVtbDQbRhc232qQRnUplJ2uoPWJCMg9GYAjhQTo614w8Ca5pM1hd+KNNVZACsiXSB4nByrqezKwBB9RW94h1mHw7oUlyEDzYEVpbJ96eU8JGo9ScfQZPQVUs7I+GPhytrcSB3sNObzpOzMqEsfoTk0XWjCzu0V/DfiwXL2+l65NCmpyRCS2njOIdSixkTQnocjkp1X3GCZfFNut5qeh2cnKXN4sTg9wWXNWfCdikHgvw/DPGryWunwKrMoJVhEFJHocZHHrVTxdM9pdaTeRqWNpcefgeilSa5cTy8j7XX5nXhebnXez/I9WHHSimxyLLGskbBkcBlI7g06vfPnThbr/k4HTf+xauf/SmGu6rhbr/k4HTf+xauf/SmGu6oAgvJpre0eW2tXu5VA2woyqWOcdWIAHc+w4yeKxZPFLweB4Nems0WWYQr9n+0AIskkixgGQgYUMwy23pk47Vs31zLaWMk9vZT30iDK29uyB5OegLsq+/LCuOgt9cufh3FYtoNzbXFu8aXFjczwBryEMDIqOkjKMqSPmK5wRwDuoA3ND8Rvfw6kNWgtrKfS5NlyYLrz4ANgfIkKqeFPIKgj6YJm8M65J4h0c30tk9i3nSRiGRssFViFLcDDEYJXscjJxmua07w1qc2h6hY6ZZw+GNPmmia1067iW5WNVOZAyRShVVzgbFfGA2fvEVo6Da+KNH0+9+3rYalcTaiXjSCM2gEbSfPISZJc8HcF4PGCecgA1RrFyPFyaRJpzR272ss8d40y/vChiBCoMnH77GWIOVPBBBqhqXibU7DUGb+wi2lR3cNpJdPcFJmeRkQNHFsIdA0igneDw2AcDLb661NfH9jJD4c1Geygt5bZ75JbYR5leBt+1pg+1fLbd8ueOA1RT3WpzeLD9u8LapdWltOq2U8U1r5CAgAzMrThy3JH3MgDgZJyAOHi67k8aS6LFBoyRRziJTcauY7qYCNHd44PJO4KX2/f6qeRXVVxeraXe3l/Np1j4ea3WfU7e+fV/tEbR/u3jYtgt5gk2oUChdvOd3JrtKACvGfhcyafpng67ZxEt3b6hbyMxAGEuJHGT9TXs1eK+ArK21jwv4F067hE8IOozTIf7omfb/48K5sTfkTW91+aOrC252ntZ/kzvdS8TzaxM2k+Dj9ouG+Wa/A/c2w7nd0ZvTFbuh6NbaDpUdlaZYKS0kjfekc9WPuatWtpb2NusFnBHBEv3UjUKB+AqaqhTalzzd3+XoRUqpx5IKy/F+oUUUVuYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcb8W/8Aklur/wDbH/0clZ9aHxb/AOSW6v8A9sf/AEclZ9ehQ/hfN/octX4/l/mcra+C7q1e7MPinVrdLi7nuRFbLAqJ5kjPgbo2PG7rnn0HSp/+EVvv+hw1787b/wCMV0dFacqIuzJ0vRLnTrozTa/qmoKUK+TdmHYOnPyRqc8eves+Xwg80FzA+qzCPULl5tRdUCy3KnASIOPuIFAXgZI6EZOemoo5UF2ULnSYZ5tLdD5K6bOZoo0ACn9zJFt9gBIT+ArJuPC97PqFzjVY0026vYr2W3FqfNLJsO0S78BSY1z8uevNdLRTsmF2Z1jpK2mr6jqMkxmnvWQAlceVGi4WMe2S7Z9WNRX/AIfh1XVYbrUbiae2t9rRWJwIfMByJGAGWI4wCSARnGea1qKLILnPa94Yn1O5e60rVH0u5ngNtcssIkWaLnGVJGGGTtbPGTwRV680bz9Hg02zvrnT4IlWMtbFQ7RqMbAxB29uRg+hFadFFkF2Z8Oi2tloh0vTDJYQhCqPbkb0J53AsDls85OcnrmoNI8PRaVeT3st9e6jeTosbXF46llRSSFUKqqBkk8DnvWvRRZBcKz/AIYeGLG+uNY8RXsSXBnvp47aOVQyom75mweMnOPoPes6WS013xg2iarq0emabbRq8/8ApCxPcyNgrGCecY5OP6iq9v4ZTw34i1PTNNu59M1pGa70adZT5d7ERxAwbhiMY9T70T+FwvZsI7qVjs18LeIfC80h8E3ttLp0jF/7L1HcViJ6+W45H0PH1rjLnV9a0T4sWl3qVnb6RNdtBFcw2h3JdxOxBcseCVO0dAa9V8L62PEfhew1YIIzcxbmRTkKwJDAfiDXD+PUbxf4osNI8MrbzanpBa7nuX5SAjG2InplmAyO2B71hSm3NxmvVms4rlTiaHxflNt4a0i7MNxLFaa9YXE3kQtKyIswJOFBP/1yB1IqT/hcPhb+5rP/AIJbr/43Wz4V8XW/iKF4J0Nlq1t8t3YS8PE3cgHqvofeuhrjlFxdmbppq6OF/wCFw+Fv7ms/+CW6/wDjdH/C4fC39zWf/BLdf/G67quU8J67dXWveINE1S6S5udOu90UihRmB+VX5e69D9RQotptdAbs0ih/wuHwt/c1n/wS3X/xuj/hcPhb+5rP/gluv/jdd1RUjOF/4XD4W/uaz/4Jbr/43TX+MfhSNGeQawqqMszaNdAAev8Aq67yuT+JGoyW3hOTTrL5r/V3FjbRjqxfhj9AuefpVQjzSURSdlczovjN4SniWSE6vJGwyrpo90QR7Hy6jvvi54Yn0+5ijj1kvJEyqP7GuuSQR/zzqxb+BdW8Oxqvg3xFJbQgDdZX0fnQk9yp6pnrgZqU6N491AeVf+ItPsISfnbT7UmQj2L9PrWns49JKxHM+qOU8Pa1dJ8JfC/hPRVkGvX+mxRupQqbOIjDSv0K8Hj1yCO2fUdE0i30HQ7TS7P/AFNrGEUnqx7sfcnJ/Gqfh3wrpnhm3dbBHkuJubi7nbfNOfVm/p0rapSkrcsdhxTvdhRRRWRYUUUUAFFFFABXB2X/AB/at/2EZv513lcHZf8AH9q3/YRm/nXn4z4ofM9LBfDP5fmUPE3h1/EKaaItSn017G8F0JrdFMh/dyJtG4ED/WdSD06c5FX/AIRK/wD+hz8Q/na//GK6WiubmZ08qvc5r/hEr/8A6HPxD+dr/wDGKu3/AIfGpWenWl5fXE8FpMks4kCk3hQZUSYAH3wrHAAJXGMVsUUczDlRj6PoLWF9c6lqF42oaldAI87JsWOMElY40ydq856kk8knjFe58MO2gGwsL7yJl1F9Qjnlh8xVdrlp9pUFcjLFeoOK6CijmYcqOYfwjPd6RqVpqmqedLqtykt5JDB5aNGoRTCqFm2qyJtJJJ+Yn0robuCSaxlhtZ2tZHQqkyKGMZxwQDwce9TUUXbBRSMWz8KaXa6Ld6a8b3KXwb7ZNcNvluWYYLO3rjpjAGABgAVBoPhq70vU5L3U9Yl1WRbdbW2aWFUaKIHJDEH52JxlsD7o4roaKOZhyoxrTw1BFrj6vf3NxqN6Cwt3uCNtqh/hjRQAOOC2Nx7modb8KLr0sq3msapHYzoEnsIZUWGVe4J2bwCOCAwz+Jrfoo5ne4cqtYRVCqFUAKBgADpWHrZuJ9a06x06CK5urhJk8uUEoqMu0s2OwBP5Vq399Bp1o1zdMVRcAADJYnoAO5rD0zWdRsPGVxezeHrmSSSwVkh3gSpDu5YL3yf4etY1HFtRb6o3pqSTnFdH/l+oQ6LBoV+NO8ZX+oCAgLZX0dyywBQB8mP4CPy/rqyay/g2e3k/ttNY0S4k2MJZhJPb56EEHLLxXX2N7p/iPSFnhCXNrMCGSVM8jqrKe49K5Lxt4O0y18Pz6jpFpBaT2oLuFG1ZIyMMvp0PHv0rpnRlSpudHpqn1/4JyQrxrVFTr3V9Gul/0foVdU1rTLD46aTeahqFtZ28vhqfZLcyrEp3XERAyxHJAPHsa6v/AITfwp/0M+jf+DCL/wCKrN8PaNoPiTwppF1qul6bqk0NqsAlubZJmTHVcsCRyOlaH/CC+Ef+hW0X/wAF0X/xNenTlzwUu55dSPJNx7Dv+E38Kf8AQz6N/wCDCL/4qj/hN/Cn/Qz6N/4MIv8A4qm/8IL4R/6FbRf/AAXRf/E1UXwx4GbV30weG9F+2JCJzGdNj+4TjOduDzVNpbkpN7F3/hN/Cn/Qz6N/4MIv/iqP+E38Kf8AQz6N/wCDCL/4qm/8IL4R/wChW0X/AMF0X/xNH/CC+Ef+hW0X/wAF0X/xNMQ7/hN/Cn/Qz6N/4MIv/iqP+E38Kf8AQz6N/wCDCL/4qm/8IL4R/wChW0X/AMF0X/xNH/CC+Ef+hW0X/wAF0X/xNADv+E38Kf8AQz6N/wCDCL/4qj/hN/Cn/Qz6N/4MIv8A4qvPNGtPCNjqWq3mr+E7E6ZdXjC2vf7NjeJFU7duAvy/1rpGi+FqReYdP8N7cZwLGIn8gua5oYqlNXbt6nVUwtWDsk36G/8A8Jv4U/6GfRv/AAYRf/FV598BbSW88NxavNzDAktnaHsymd3dvzOM/Wr03hjRfGBFroPhPTdO0wsPO1KTTYkeRfSIbc8/3v8AJ9D0nSbHQtJt9N0m1jtLO3XbHDEoVV5yeB3JJJPckmmpKs01suvcTi6EWnu9Ldi5RRRXQcwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBxvxb/AOSW6v8A9sf/AEclZ9aHxb/5Jbq//bH/ANHJWfXoUP4Xzf6HLV+P5f5hRRRWxmFFFFABRRRQAUUUUAFFFFABRRRQB5zNcxaH411KTxLov9rWl/uQZhDMiY+Ro2PQjoRx0re0/VE8TfDew8N2+kXGta1CpiE8kTJHZNuOGMpxgqu0YHXGK6ip/hT/AMgzxB/2Hrn+SUVZpQ5raqw4RfNyjNP+GElnpMOnN4q1pbRUw9vbzCNCTywHGQpJPHvXWaHoGmeHdPFnpFqkEfViOWkP95m6k/WtKivNlVnPdnVGEY7GD4h8H6X4ikjuLgS2t/CP3N9aSeXNH/wIdR7GsldH8faePLsfEenajGOFOoWhRwPqh5Pua7SihVJJW3BwTdzin8M+L9YBj13xSlpbEYaHSYNjOP8Aro3Iqrqvgj/hGo7PWfAtqEvdOBE9vklr6I4LKxPVuMj9O1d/RVKtJPy7C9mjK8PeI9P8TaaLzTJdwB2yxNw8Ld1YdjWrXMaz4F0/UtROqafcXGj6qet5ZPtMn++vRqp/2D47QeUnjG2dBwJX0xN+PcZxmjlhLWLt6jvJbo6fVtXsdD02W/1S4S3tohlnbv7AdyfQVynhyyvfE3iIeLtbge2ghRo9JspBho0brK3+03b2/CrVh4Atft8eoeJL+51+9iOY2u8CKI+qxjgfrXW0c0YK0dX3/wAhWcndhRRRWJoFFFFABRRRQAUUUUAFFFFABXB2X/H9q3/YRm/nXeVwdl/x/at/2EZv515+M+KHzPSwXwz+X5lyiiiuU6wooooAKKKKACiiigAooooAKKKKAOY8R3kg8T6JaWxthOsvmr9rz5QYnCFsc9Qf0rdK6l4inlZVg0/xNoUoG9CTDMjjIU552sM/T8ao694cg1xUZpngmVSm9RkMuc4I7881U07w9d2+tW+nDXL0Qalv+0smFd9icDdycY4rCLnGbTV02uvyX421N5KE4Jp2aT6fN/K19Cfwv4oXTdT1t7rSrxUuLkER2cRnRZQMSYYccnBFbUsOreNZoo7uyl0rQ0kDyRXHE13g5AK/wr/n6dRpmmWmkafFZafCIYIh8qjn6knuatV6lPDTUFCcrrt/XT7jyamKg5udONn3/D7/ALzlLzQtQ0HUZdU8JqjxzHddaWx2pKf7yH+Fv8+1TWvjzRnfyNSeXSrteHt72MoR+PTH410tRXFrb3cey6gjmT+7IgYfrWvspQd6Tt5Pb/gGXtozVqqv5rf/AIP9amLdeOPDlrHubVYJTnASA+YzH0AXNc1qmq6nNq1p4rh0eW103T8xytMds08THBOzso6j8/p3Vvpen2jh7SxtoGHRooVU/oKsuiyIyOoZWGGUjII9KidKrUVpSt6Lr8y4VqVN3jG/q+nXb/gkdtcw3lrFc2siywyqHR16MD0NS1x/2DVfB9w76HbtqWjSEu1iG/e25J58v+8P9n/9dW4viD4dcEXF49nKv3obmF0Zf0xVRxEVpV91+f6MiWHk9aXvLy3+a6HS1z/i/WJNP01bLTju1TUD5FrGOoJ4L+wUc5qrL44gvWMHhiyuNXuCcBkQpCnuzsOlWtA8PT2t2+r65OLvV512lgPkgX+4g9Pfv/NSqe1XJSfz6L/glRpexfPVW2y6v/gGjo2lQ6NodtpsPzRwR7SSPvHqx/Ekn8aeuj6YkvmJp1osn98QKD+eKuUVuoRSStsc7nJtu+4UUUVZAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAYHjnQbrxN4MvtIsHhjuLjy9jTEhBtkVjkgE9FPauT/AOEY+IH/AD18Nf8AfVx/hXpdFbQrShHlRnKmpO7PNP8AhGPiB/z18Nf99XH+FH/CMfED/nr4a/76uP8ACvS6Kv6zPyJ9jE80/wCEY+IH/PXw1/31cf4Uf8Ix8QP+evhr/vq4/wAK9Loo+sz8g9jE80/4Rj4gf89fDX/fVx/hR/wjHxA/56+Gv++rj/CvS6KPrM/IPYxPNP8AhGPiB/z18Nf99XH+FH/CMfED/nr4a/76uP8ACvS6KPrM/IPYxPNP+EY+IH/PXw1/31cf4Uf8Ix8QP+evhr/vq4/wr0uij6zPyD2MTzT/AIRj4gf89fDX/fVx/hR/wjHxA/56+Gv++rj/AAr0uij6zPyD2MTzT/hGPiB/z18Nf99XH+FdF4B8O6l4b0m/i1mS1kubzUJLsm0ZigDqox8wB6qf05rqaKmdeU48rKjTjF3QUUUVgaBRRRQAUUUUAFcr4y8dW/hGaxgFlNqFxcMZJooDza2qf625fAJ2rkcd+3Smat44RtQl0XwjbDXdaQlJEjfFvZn1nl6Lj+4MucYA71iaJqmn+GrzUJNXsvEera5dSFL7UE8P3Txvt4EcJWMgQjnaASDknJJzQB6LDNFc28c9vIssUqh0dDlWUjIIPcEU+vMdHvtS8Pm4uvCOjapfeGVkzLo11ZSWt1ZE8lrVZQvmR9/L4wfun+GuqsNf0zx74fu08Na3NbSg+VO8KBLm0burJIuUbgjke46UAWrbxLFfeLrnRLC3e4WyhD3l4jDy4JSflhPq5XLED7o25+8KLvxEsPi2y0CztWu7iaJp7p1fC2cI4V245LN8oHU4Y9Aa5jRJdNS+1DRtNmtrTwjpkT2N3NJKVe8vZPmk/fZByq/ebOSznnKmuOj8Sad4b17U/C2k+MtJ8rUgt3N4iu9RVrm1jxs8osxIlkCgCPB+UElgT98A9qs9Qs9RSVrC6huVhlaCUxOG2SKcMhx0IPUU69vINOsLi9vJPKt7aJpZXIJ2ooyTgc8AVwvhbxl4bsNbtvCOiiFdN8kDTryCQvHNIBl43Yj/AFh5YHJ3c85BFaPxWmeP4V67HEcSXduLJPrO6wj/ANGUAdRYX1tqen299YSia2uY1lhkXo6MMgjPqDVe81vT7DVtP0y7uBHeakZBaRbWPmlF3PggYGBzziodSmu9D0GMaHo8urSQBIo7SKeOJtoGM7pCF4A9a8117xF4qufiP4QkbwNPa3MX23yYbnU7fE2YQG+ZC+3aOeRznigD1+is3Qp9YudPMviGxtbC6ZztgtbkzqqdsuVXLdegx0rSoAKKKKACuObw5rsV9eyWcmnmK4uXmXzWfcNx9h6V2NFYVaEatubob0a86N+Xqcf/AGH4l/v6V+cn+FH9h+Jf7+lfnJ/hXYUVj9Sp9395v9eqdl9xx/8AYfiX+/pX5yf4Uf2H4l/v6V+cn+FdhRR9Sp9394fXqnZfccf/AGH4l/v6V+cn+FH9h+Jf7+lfnJ/hXYUUfUqfd/eH16p2X3HH/wBh+Jf7+lfnJ/hR/YfiX+/pX5yf4V2FFH1Kn3f3h9eqdl9xx/8AYfiX+/pX5yf4Uf2H4l/v6V+cn+FdhRR9Sp9394fXqnZfccf/AGH4l/v6V+cn+FH9h+Jf7+lfnJ/hXYUUfUqfd/eH16p2X3HH/wBh+Jf7+lfnJ/hUuneH9YTXrK91CSx8q28ziBn3HcpHcfSuroprB0007vTz7CeNqNNWWum3cKKKK7DiCiiigAooooAKZJBFMQZYkcjpuUHFPooDYRVVFCooVR0AGAKWiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAKGpWd6+nSx6Dc22nXcj7xPLaecmc/MSgZMkjvu/OsH+yPHv/Q36P8A+E+//wAk11tU9WuL200i6n0uy+33scZMFr5oj81+y7jwB70AcVaaj4xh+JFhoE2t6Xqlulu93qfk6W1ubeM/LGN3nP8AM7ZwMdEJrr9c0qbVNJuLOxv5NLluSokurdB5oTI3BSejFcgNztzkdKoeD/DcugadPNqc63mtalL9p1K7UYEkpGAqg9EQAKo9B6k10NAHmGgf8Ir4Z0HXrPV7a1/s+316SKzs5IRM0jrFEFWNCCXf6ZJySe5rO0eTW7LxhrGoahc6N4RkmtUmtbK/09po0s0BJYPHcRp5gLHzBglcryVxXTWVj4i0mTWpbPw7aXtzca5NcWb3V6sSrE0MYEuQrkchl243cehpL74eT+MVR/iJqK3qxHfbWGmhreC1kwQJA2S7uM8EkL/s0AW/Cg1Pxb4Z+0+NbWzljkuxcaesdq9u3lIwaKVkZ3KOSN2N3AIB7io/iru/4Q+2K52jWNOL46Afa4uv44qRbXx1ocix2d5p/iWy3AAX5NpdIvvIiskmP9xT9a1PGfhmLxl4O1HQJ5zbLexhVnVdxicMGVsZGcMoPUdOtAEdv400pvCqeIb12s7CaVkgZxvaceYVjZFXJbeAGVQCSGHFcXrvjvQ7j4j+C5J/temmO5uo3fVrGayCq9uwXBlVQcsFHXqR612er+Eo7/QtLsbC6bTptHlimsJ44lZYnRDGMoeCu1mGMjrwQRms9PA93qusWt/421a31xbNJVtrOLTxBADIuxmdWdy52kjk4AJ4oA7EEMoKnIPII70Vk+HfDdj4W0+Sw0lrgWbSmSKCWZpFtwQP3cefuoMZC9smtagAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACud1fxtp2i6k9ldQ3TyIASY0UryM92FdFXkfj7/kcLn/cj/wDQRXHjK0qVPmj3Ma03CN0dZ/wsvR/+fa+/79p/8VR/wsvR/wDn2vv+/af/ABVeX0V5f1+ucn1ioeof8LL0f/n2vv8Av2n/AMVXQaLrVvr1gbuzSVIw5TEoAORj0J9a8Pr1T4cf8iu3/Xw/8lrqwmKqVanLI1o1pTlZnWUUUV6x2BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFc9rvil9AmAu9MmeFvuTRuCp9vY+1ROcYLmlsTKSirs6GvI/H3/I4XP+5H/wCgiuk/4WdZ/wDQPn/77FcX4j1ZNb1uW+iiaJXVQFY5IwMV5eNr0qlO0HfU5K9SMo2TMuiiivHOMK9U+HH/ACK7f9fD/wAlryuuv8L+M7fQNINnNaSzMZS+5WAHIH+FdmDqRp1eaTsjahJRndnqNFcQPibZk4GnTk/74rq9LvZ7+zW4ns3sw/KpI2Wx6kdq92nXp1HaDuehGpGTsmXKKKK2LCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqO4t4bu3eC5jWWJxhkYZBFSUUbgeYeJ/As2nbrvSA89r1aPq8X+I/X+dcdX0BXHeJ/AsOo7rvSAkF11aLokn+B/T+deRicD9ql93+RxVcP1geYUVJcW81rcPBcxtFKhwyMMEGo68jY4wqezsrnULpLayhaaZ+iqP84q/oPhy91+52Wq7IVP7ydx8q/wCJ9q9X0TQLHQbXyrOPMjD95M33n/8Are1dmHwkq2r0RvTouevQyPDHgq30fZdX224veo7rF9PU+9dVRRXvU6caceWKPQjFRVkFFFFaFBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGPr/hqy8QW+Jx5dwo/dzqPmX2PqPauP0n4c3L6jINXkCW0TYHlnmb6eg/WvSKK5qmFpVJKclqZSpQk7sitrWCzt0gtYliiQYVEGAKloorpStojUKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPN9E+Ini7xNaXN5oPge0ntILqa2V5dcEbOY2Kk7fJOM49a0NP8AiO0Wu2mi+M9Bu/DN/fNss3mlSe2uX/uLMnG72YDt3OKo/BD/AJEa+/7DV7/6NNXvjJp0OofCPXjKMSWdubyCQfejli+dWU9jxjPoTQB2N9fW2m2E97qE8dva28ZklmkbCooGSSa4a0+IPiXXrYah4U8B3F7pL8w3V9qMdm9wufvJGyscHqCxXIrF+It7N4h8CeBdNuT+78S6pp8d+ucB4ivmOv4kD8q9ZVVRQqAKqjAAGABQBzXhjxtbeKbXUI7WzuLPV9Nby7vSr3EcsLkZUEjIKt2YZBFc/r/jzxt4a8P3ms6n4EsRaWcZllMevhm2j0Hkc120WhabD4gn1yK0VNSuIFt5bgE5eNSSoIzjgnrjNc18Yv8Akjnib/rxb+YoAk03xD44vLm0+1+CrG2tJnTzZ110SNHGSMsE8kbiAc4yM9M12NV9O/5Bdr/1xT/0EVzPjq9vLibSPC+lXMtnc67M6S3UJw8FtGu6ZlPZjlUB7F89qAJtc+JHhLw7NPFqmtRLLbY8+O3je4aHJwN4jVivPrirOl+OPD2sXyWVpqHl3kgLJa3cMltK4HUqkqqx/AVzPjfRtO0zwpofg3QrWK0h1bVra3EMS9Y0cTTOe7HZEck8nPJ5rrvE3hqw8V6HNpupJww3QzpxJbyD7skbdVYHkEUAazkqjFVLEDIUHr7Vyf8AwlfiT/onmsf+B1j/APH6l+G2vXPib4c6RqmoOJLuSJoriQDAeSN2jZse5Qn8a5vUdb1XT/B/xNvrfUJ/tOmXk4sndt32cC0gkAUHgAM7HHvQAuo+OfFbeNNG0yz8H6rbjyZ7u7tDc2LNcRKFRcN5pCgO6k8gntnnG9/wlfiT/onmsf8AgdY//H6423trGW9i1eTxX8RPt7WogMq+H5DhCdxUf6DjG7nPfitfwTq93L8SNR0ka1rmp6fHpMNyo1ux+yypK00inaphiJXaq84IznnjAAOz159cGj+f4cjtWv42EhtrvO2ZR96LeD8jHs3IB6giso+PbaCzs5b3QvEMU1zAJWgi0e4nMJ3FSjNGjKGBU8Z6YPQirviWLxEnkX/hi4ilktt3m6ZcBVjvFOOBJjdG4x8p5XnkdxV8S654h08pb6LodtPJcQ7Ybm61GOGNZ2BxHtILMRjPA5HQ0Ac3pXxOW88WaxKLTxFc6LHFDDbJFoFw3l3KtKLhSVi3AjEYIY8HPvXY6J4ptdeupILaw1e2aNN5a/0ue1UjOMBpEAJ56DmuN0PT/E9h4Nfw9Na+HLeG1t2TUJ5NXlklLuC8kr7Ik2Ftxf72RnOa3vAZ8RWds+k+Ipo9VgghjlstbgI2XUTA4VuSS64+9yGUqc5JoA1Nb8ZeG/Dd1Hb6/rljp00qeYkdzOqFlzjIB7ZBrlfFnxZ8KQeDdZm0Hxhpf9qR2Mz2flXEbsZghKAKcgksAMY5qXWNft9B+LrSXNpqN0JdDjUCwsJbphid+ojUkD3Naqa9YeN9E13StPivoLhLRoZob2yltXXzUYKdsig84PNAGDc/FbQ4zpU9h4w8O3EWFTULae6VHYNjMiODgFeTtIwRkZBxXfabqVlrGnRX+lXUV3aTAmKeFgyOM44I68g1x+heMDD4C8ESQ2pvLzWktbZYA4UqfK3SuTjogRyeO2OM10fiTxHaeGdMW6u4ri4klkENta2sRkluJTnaigdzg8nAABJNAFTxf4juNDj06z0mCK61fVbtLa0t5SduM7pZGxztSMMSfXA707xP4in8N3WlXM8UZ0ee5+zX1w2d1sX4ik642b8K2em4HoDXH6drY0nxHf8AiDxrputNq5i8qOO00i5uLbTrbAby0lSMq7Hgu4OCRgYC1rXHxC8N67oTrPo2v32l31v8x/4R+7eKaJl65EeCpBzkUAd1RXm/hLxNdaLaaXaX32rVfDupBBoutJC7uqPjy4blcblYZAEh4bjdg5zseN7q6v8AUtH8Jadcy2kmsvJJd3MDbZIrSIAybWH3WYuiA9txI6UAT6z8S/COgzTQ6jrUfmW7BJ0topLgwsTgK4iVtpJIGDjqKt6T418P61fCxsdRC3rLvW0uont5mX1EciqxHuBXNeNNJ0+y0vwt4N0O0htLfUNYt820K4AggP2iQ+/+rAJPdgTXU+LPDFn4s0GWwuxsmHz2l0nElrMPuSo3VWB9Pp0NAG1WLr/iG40Sa2itvD2raw1wHOdPSIrFtx98ySIBnPHXODVT4d+IZvFXw50TWrvBuLu1UzEDAMg+ViB2ywNamr+ItF8PwrLrurWOmowO03dwkW76biM/hQBz2keOtR1Dx2vhq/8AC11pjmxa9aWa7hkMa79i7ljZgNx3Y+bPHTrjsq8z+G/iLQ9f8SeJPEK6zp8t3qd6La0thdIZEtYMpGdmdw3t5j+4ZTXR+GNY1HVPF/i6C4mWTTdPvYbWyAjAKN9njeUFh975n79M/TAB0000VvC0txIkUaDLO7BQo9ya5Lxt4/sfDvhaa90u/wBNudQaWKC1hkuF2PI7hRuIPCgEknsAa6q8trW8sprbUIIbi1lQrNFOgZHUjkMDwR9a8YtNB0/xN4vk1bwV8P8Aw/No2mq9vaXNxHHaW95KeJJBsidpQu3auQFyWbJ4wAen6X418OatqaaXp2vadf6jsLPDZziXG37x+UnA+tb1cDpnxL8MWegRyXFuNN1Fp5bVtEtIxNcmeJyjoiRjLjcDhsAYOTiur8P6ne6vpC3mpaPcaPM7sBa3MiO4QH5WOwkAkYOOoOR7kAytY1fxLDqUiaJb+HJrRQAr3uqyQy5xzlVhYDn3p8Go+KrjRXaKz8Pyaqs+BDHqcrQeVj7xfydwbOeNuMd+1YHiTwjYjWXfTfBPgO6SUeZJNqm2GZ5CSWJAt3znrnOSc1PZyWXgbw6moQeEtHg1C+u47P7N4b8sLMzNhAZHWIHknrgDNAEfiXxV468LeGr7XNQ0Lw7JbWMRlkSDVZy5A9AbcDP4ivQa8n+J+v8AiHUPhfr9pL4F1a1Sa0ZTM91aOE5HJVJix/AE13fii31K8/si20wSqjanBLdzRyBPKhiPmnPOSGKKhAzkPzxQBleDfEmraj8M7HW7mzn1jUJmk3w2vkxO4EzLxvZE4UdyM49aqSeLvEWpatp11ovhfWf7NtZ7iLUohPpxMjKpUL/x8EgrIORlenfpXGeHbEaX8Ix4nuZruSygsG3Wdvqk9iWljupsMZIiCBtkIPXO1TjgVGt34dRbhU1Lwyq3TF7gD4o34EzFQpLfJ8xIAGT2AFAHqXhzxXN4lWC4g8P6jaafPEZI724ntWjfkYAEUzsc884xxXRV5d8Ojo+ra3e2Vi7bdEitZIn0vxje6jasH8wCMqxVfl8r7pUjDCvUSQqkscAckntQBxup+N9TfxLe6J4R8OnXJ9NVDfzSXq2sULONyxqxVt77eSAABkZNbHhTxNb+K9DGoW0E1rIkslvc2s4G+3mjYq6NjjgjqOoxXmth42ms/iBrP/CH6VLq9n4luE+w3s7fZ7Q3kUWyUCRuXTbGrAqDkhguQM13vgzQV8G+H1tdVv4JdR1G9lurqYHYs1zMxdggPPsB1wuaAOnqpc6vptnN5V3qFrBJjOyWZVOPoTVusbU/B/hnWrw3es+HdJ1C5KhTNd2McrkDoNzKTigCx/wkOi/9Bew/8CU/xqza39nfhjY3cFyE+8YZA+364rzXw74F8JT/ABK8ZWs3hbRZLe2+w+RC+nxFIt0JLbRtwMnk4616DpHh7RdASVNB0iw0xZiDItlbJCHI6Z2gZxk0AW7y7hsLGe7umKwQRmSRlQsQoGTwASfoBmq+ja3pviHS4tR0S9hvrOUfJNC24H29j7HkVerB0/wbpGk+KbrXtLjls7i9jKXUEMhWCZsg+a0fTeMEbvQnOaAN6iud8YeMbTwlp8ZMMl/qd23lWGmW/M11J6AdlHUseAPyqbwja67baCr+K7tLjVLmRp5UiUCO23ciFPVVHGe/JoA3K5jwj4kvde1fxNaXscCJpGpmzgaFWBdNiuC2Sefmxxjp0rp68d8O+LpvDHjLxy1z4f1O90ttbLS39hGJvIbyY8h4gd+MYO4A9fagD2KiszQPEmjeKdNF/wCH9Rt7+2PBeFslD6MvVT7EA1p0AYN3478IWF5LaX3irRLa5hYpLDNqMKOjDqCpbIPsah/4WP4I/wChy8P/APg0g/8Aiq5r4baXp99feOZL2xtriQeKrtQ8sKuQPLh4yR05Ndx/wj2i/wDQIsP/AAGT/CgCzY39nqljHeaZdwXlrKMxz28gkRxnHDDIPIqp4k1+18LeG73W9RSZ7Wyj8yVYVBfbnHAJA7+tcn8Df+SJ+G/+uD/+jXq18Yv+SOeJv+vFv5igDsbeZbi2inQMFkQOAwwQCM81k+KdYuNG0uF7L7OtxdXcNrHLdE+VEZGC7mwQTjsMjJIGRnNc/aeNNX1LTreHwl4S1G7YRqv2vVF+wWy8dfnHmMP91Pxq9onhnXJLi8u/G2tRast7CIX0mG1VbGJc54V8sx6/MSM55HAwAaHhfV7zVIdRg1P7O91pt61nJPaqVinIjR9yqSxXHmbSMnDKwycVuVBY2FppllHZ6bawWltEMRwW8YjRB6BRwK45PjN8PHZ1/wCEpskZG2ssgdCD9GUUAdxRXFf8Li+Hv/Q2ad/38P8AhVrSPif4M17W4NI0bxBa3l/cBjFDFuJbapY84xwFJ69qAOnuLiG1gaa6mjhiXG6SRgqjnHJPvXIeNviBZ6Bo1s+j6hpc+oXl7BaQLcXA8pd7jezkMMKEDnPqB16HqdTtdPvdLuINZgtriwZMzx3aK0RUc5YNxgYzz6V45o+gw6/4kuPEvhH4c6C2kQRmDTWu1Syjulzl5lRYnLFiAFZgoCjIJ3HAB6npXjLw3ruqSadomt2Oo3cUZlkjtJ1l2qCBklcgcsB1rarg7D4n+FofDtjNbQul7eBvL0OxhEt15isUdfLTphlYbjheOtdZol7d6posF1qmlS6VcSqfMs5pEkaPk4yVJByMH8cGgDib34g6ifFl/daPpOo6t4X0W2kjvJ9OSBvOuhhmCmSRSwjUEHZnLMQegpmvfELWbvTLez8OeHtRttV1YRvpjNLZytLDw0swCysgVU6FyAS6DPPEvjK1Sw1vwro2ladqb6cYrsHTdCvfsJIVY9vIliGBk8bu/Q1CNJAxjwf4/GBgY8VdB/4MaANi38e3t5dXtnZeCdflu7B1SeKSaxQqWUMp5ueQQeGGRwR2OOoW9KaQL6+gktCsHnTQOQzRfLllO0kEjkcEjjgmuD8LNcW3xNayFl4h022bR3lNtrOrG8DuJkAdf9ImC4BI6jrXeamwTSbxm4CwOTx/smgBNK1O11rR7TU9PdpLS8hSeB2QqWRgGU4PI4IrC+G+r3+u/D7TdR1a4NzeTeb5kpRV3YldRwoA6ADgVzvgbxH4htPh34ct4/AerXCQ6VaxrMt5ZqJAIlG4BpgwB64IB9QKofC/xJr1r8N9LhtfBGqXsS+dtnivLNVf9854DzBuDxyO1AHpOla3Z6zLqEdkXLaddtZ3G9cYkVVYgeow6nPv9a0K4z4b3FxdQ+JJryxm0+d9cmL207KzR/u4uCUJU/UEiuzoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA8s+DWs6ZY+Cr+O91G0tnXWL1mWadUIHmnnBNJ4/8UW/juxk8B+BbpNTvdSKxX97at5kGn2+4b2dxxuIBUKDnr7Z7KX4e+C55nlm8IaDJJIxZ3fTISWJ5JJ28mtmx06y0u1Ftplnb2cC9IreJY1H4AAUAcb8SPCN1qHgOxi8Mwq+oeHrq2v9NgJwJGg6Jn3XIHvitDQfiV4V17SBfLq9rYug/wBJtb6ZYZrVhwyyKxBBB4z09K6usjUPCXhzVrxbvVdA0u9uVOVmubKORx/wJgTQBi+FfG0vjHxRqg0a3jl8M2UaxRanhh9qucneIz0ZFGBnHXoSDUfxi/5I54m/68W/mK7KGGO3hSKCNIo0G1URQFUegA6VHeWVrqNnLaahbQ3VtMu2SGeMOjj0KngigBNO/wCQXa/9cU/9BFcp44t76w13w/4q0/TrjU10hp4bu0tV3TNBOqgtGv8AEVZEOOpGcV2SqqKFQBVUYAAwAKWgDhfD9tqPivxsPFusaZc6ZY6fbta6PZ3qBJiZCPNuHTqhIVUVTzjcSBmrPiTx1DEZdG8ItHrHiSVdkNvbnzEtiePMnYcRovXB5OMAGuxIyMHkVV0/S9P0i2+z6VY21jBnPlW0Kxrn1woAoAz/AAf4dj8J+D9N0OKUzfY4Qjyn/lo5O52/Fix/GuF1S0ub/wAE/Fi1sbeW5uZr6dIoYULvIxsLbACjkn2FeqVxUfwx0ubWNY1LVbu/uZtSvTcqLa/ubRYl8tECbYpQrEbM7iATnHagDnrWfwylnCkth8Rg6xqGAOtgA456NirPgm2if4p6lf6ZY+IIdObRYIfO1tLzc0onlYqrXOWwFZTgHHJ7k10H/CsvDf8A1GP/AAf33/x6j/hWXhv/AKjH/g/vv/j1AG34h1u28N+HL7WL0Ew2cLSlF+85A4Qe7HAHuRXIam+pXK/D/TNcaKTXJr5by8WNcKgigkaQgegZkXPqwrptd8Mw69NpAubmVLTTrtbp7UcrcsgPlhyeSFba3uVGah0Pwr/Z2tXet6tfvqur3S+ULl4xGsEG7IiiQE7V6E8ksRknpgA5eeNQPi1IB87YUn2GmQ4/ma7Tw4YofDGjwKVT/QohGmeSAi9B7VV/4RGz+0eJZGmmb/hIgouUJGI8QCH5cf7Kg896z9C8H6tZalpl1r/iCLVF0m3aCzigsBbAFlVS7ne+5tq442j5jxQBQfWrHT/il4k1fVbyOz07SdKsbKaaVsIkkkssnJ7cPF1/vD1p/hLV7C81rxh4qS7T+xpJYI4b52xFJHDAN7qTxsDM43DjINdF4b8Ox+HotQJuXu7rUb6W9ubh1wWZjhVx2CoqKP8Adz3qDWfCFt4h1iG51u6uLvT4Apj0l9otmkBz5jgDMnbCsSoxnGaAOC+EqRX/AIo1OeaScW9gJX0G1uYfKZbK5meQzgHkhmGwHjCovA3V6taX1rfrK1nOkwhleGQoc7JFOGU+4NYnibwodbuLPUdK1B9H1mw3LbX0UYkGxsbo5EJAdDgHbkYIBBBqbw74cbw/4W/suPUJZrpzNLNflFDyTyuzvLtOQPmYkDkdBzQBm/EPVJE0JvD2lNu1vXVazs415MasMSTsOyxqSxPrgdTWvex2/h/wVcRxDba6dp7KoJxhI4+P0FQeHvCNj4fnnvPOuNR1W6ULc6levvmlA6LkABEHZFAHtVHXvAEXiO8uW1HxDrw0+6AWbSobpEtnXABXhN+DjJAfue3FAFn4d2bWHwy8NWsgKvHpVsHB7N5S5H55rN8aQ32k+KdC8WWGm3Wpw2EdxZ31tZp5k/kzbCJET+La0YyBzhj6V2ccaRRrHGoVEAVVA4AHanUAcN4atNQ8R+MZvGWt6fcaZb29sbPSLK8ULMiMQ0s8i5OxnIVQp5Crz1qTxP43WVJ9B8EyR6r4jnUxItu2+KxJGPNnccIF64PzEgACu0ZQylWAIIwQR1qtp+mWGkWi2ulWNtY26/dhtoVjQf8AAVAFAFPwtoEHhbwnpmh2rF47C3SEORy5A5b8Tk/jXl+l2ms6xpDaKvh7ULLxLqZaPXvEN9bFFhQk7/IkP3/lO2NU+VQQTjBz7NRQByfifTPCGh+CSNc0exudNsbdYYLaW3WRnwAscaAgkuSFAxznFc94N8AeIvCuiWNzo+sC2vLqT7TqelXoM1qWdgWVGHzoyLhAckHaMjvXaXnhew1HxNaa1qDTXMtimLS3kcGCB+cyqmOZMHG45wOmK2aAMzxDoNp4m0OfSdRe4W1uNomFvKY2dQQShI52sBgjuCa5rU5dQ1fxI/gzwxcjQrDTbOGW/vLZF81EkLLFDACNqcRsS+DgYAGeR3Fc9r3gux1zUk1NLvUNK1NIvI+3abceVI0echGBBVwCcgMDg9OpoAxvhl4RtPDVvrLLp7xXUuq3I+13SE3FxFv+Vmkb5nB65zg5Jruq4lvhxPIpWfx54vkQjGBfRR/qkSn9a7OGPyYUj3s+xQu5zlmwOpPc0AeeazoTeLvH2rWp03wo402C2An1bQft0ziQOcb/ADkwBjgY71kWU7Hw9bWLWOlWQ0zxpFZKmlWX2WFwki/P5e5sE5OeTXaXHgSzvvFOo6zeX2og3kcMaw2WoXFoE8sMMkxSLvzu7jjHvVe1+G2l2+gXmkm91Bo7jVDqkVx9pYzwS7lZSJGLFiCvVs5zzQB2NUNF1mz1/SYtS012e2mLhWZdpJVip4+qnnvXPv4DvJkMdz458UyxEYZBPbx7h/vJArD8CDXSaVpdnomkWumaZCILS0iWKGMEnaoGByeSfc9aAPM/C39nXfwQ0LQ9VkukXXLiWxiNoF8wMZpX3DcCAAEJJweB0qRNT1gtb3D+J/Ei6a+r3GkT3ITT2aCVJjDG5UWn3HdSuc/KWXqCSOm8M+ALXw/FopuL2W+n0eG4ityVCRgzSbmfZz82Plzk8E+tQweEvEulXF6mgeJ7K3sLq9mvRBd6QZ3jeWQyOA4mTI3MSMrxnvQA/SLSz8PePLi2vtW1TUdW1qyjZLi/SBY3S3Z/kTyo0G4ecSQR0IweDVz4i21/efDTxFb6QGa8l06ZYlT7zEocge5GQPejTvBVla6fpcV9c3F9d6deyagl47bXeeQuXPHRT5rDb0xgdq6SgDitP0zQfHPwo0y10ecRWJtoWsbi1ID2csYBRl9HRhyPYg9TXK6Zr93488eaF4d1mGKPUfCdxLe6x5bgxSzInlwPF6hvNL46rgg84z2N58LfB19fzXkmkGGadzJN9ku5rdJWPUskbqrE98jmn3Hwx8G3FpaW40C2t1syTbyWZa3ljz1xJGVfnvzz3oA6l2KRsyqXIBIUdT7Vxn/CxLz/AKJ/4v8A/Aa2/wDj9doqhVCr0AwKWgDynR/Euraf418SaxN4C8Utb6r9l8hUt4C6+VGVbcPOwOTxgn8K6mw8c3d9qEFq3gnxPaLNIENxc28CxxAn7zETE4HsDXW0UAI7rHGzyMERQSzMcAD1NcBcfEibxFcyab8MbEa3cK2yXVZQU0+1PqZOsh5+6mc+tegVFa2tvZWy29lBFbwpnbFEgRVycnAHHU5oA5rwt4Hh0S+l1rV7yTWvEVym2fU7hQCq/wDPOJOkUf8Asjr3JrqqKKACuB+HH/IzePv+w+f/AERFXfVkaJ4bs9BvtXu7OSd5NXvDeTiVgQr7FXC4AwMKOufrQBJaeG9GsNeutastOgt9Ru4xHcXES7WlUHI3Y4Jz369PStOiigDx/wAF67r2maz43h0fwjd63A3ie6driG9t4QrbIhsxI4OcAHOMc/Wur/4S/wAY/wDRNdR/8Gtl/wDHa7WigDgPgb/yRPw3/wBcH/8ARr1e+LdvNdfCHxNFbRtLIbCRgqjJIHJ/QGuxooAwdH8U+H7rRbOa21vTpI2hTDLdIf4R71dh8Q6Lc38djb6vYS3cgJS3juUaRwBkkKDk4AqldeBPCF9OZr3wrolxK3WSXToXY/iVqzpvhfw/o0qyaRoem2EiAhWtbSOIrnrgqB60AatNjjSJdsSKgznCjHNOooAKKKKAMrxF4dsfFGljTdW85rQypJJFHIUEwU52Pj7yHuveub1CXVPFPim+8M6NfyaJpOkJEl/c2gAuZnkQOsURIxGoQqS4GeQBjBNdzXNa14HsdW1ZtVtdQ1PRtSkjEUt1plz5TTKM7Q6sGRsZOCVyM9aAM34U+F7Xw14RZF0w2d5JfXnmyTRETzILqURs7H5m+QIQT1GD3rt64k/DiaQYuPHfi+VfT7fFH+qRKf1rtqAPJfGmv+AvFt7pVz/wmXhJv7P87/R9VgS9hk8wKM7PNTBG3g5PWuO03VvB974Vj1S4ufhbaXb27SnT38NLvVgCQhP2kHJwO3fpXseo+Er7XrieLxBr00+kSOf+JZaQLbpImeElfLO4xwQCoPcY4rdvLCO40afTodtvHJbtAmxOIwV2jA44HpQB494D13wRpGpw+IrnxP4N02a60xYZNP0mySxEbMVc7z5rbmUjb0Feh+MvEL23ws1jxB4cvY2ePTZLmzuowsikhCVYZBBH1yK3NF07+yNBsNN83zvsdtHb+Zt279ihc4ycZx0zVbxVoX/CTeEdU0P7R9l/tC1e387Zv8vcMZ25GcemRQBfsneXT7d5G3O0SlmIxkkdeK5L4Q/8kq0f/tv/AOj5Kkh+F/hyOBEZtYYqoBI12+GePTzuKbbfCjwnZW629nBqlvCmdscWuXqquTk4Amx1NAFjQNUvbv4ieLbC4uGktLH7F9miIGIt8RZ8HGeTjqa6quY8LeCLXwnrWtXlhdTyQaoYCIbiWSZ4vLQqcySOzNnOecY6V09ABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBm67rtp4f08XN4JJGkkWGC3hXdJcSscKiDuT+QAJJABNXbV55LOF7uFYJ2QGSJZN4RscgNgZx64FcXon/FS/FLW9VuNzW3h0rpdgh+6szIsk8n+8Q6J9Af71dTrmv6V4a0xtR16/hsLRWCmaZsDJ6D3PtQBoUVwsPxC1DxD/wAiN4WvdSgYfLqOoN9htWHYqXBkcfRPxqaRfieMyxyeEjgE/ZjFc5J9PN3frs/CgDtKK53wf4rHiizu0urJ9N1TTbg2uoWMjhzDIADww+8hBBVu4rM1m/vYfjN4YsYrqdLK40+9eaBXIjkZPL2kjoSNx/OgDtaKK5/UPFkekeL7LRtVtHt7bUlCWOobwY5Z+SYGGPkbAyueG5HUYIB0FFQ3ck8VlPJZwLcXCRs0ULSbBI4HClsHaCeM4OK422uPidqcKvJY+G9ADDlJpZb2RfwTYvH+8aAO4orymRPG3iTVbnStB8aShbOTyr7U7fToIreGQYJijVg7yOO4DqF7sT8ta+iLp3hXXbc33ivXNaa+ZrEXV7drLaJcBh+6KpgRykjA3D1XOTggHf0Vx3xWlf8A4VvqNnAxWfUnh0+Igchp5UiyPoHJ/Cugvob+y8PtB4cjt5LyGJY7Zb6VxGcYHzsAW6d8EmgDRorhmj+K7I7LdeDY2z8sZtrpx+LeYPftXYWz3MWlwyap5ZukhVrj7KrMhcL82wcsRnOB16UAZeo+MtH0vV5NMn/tCa8iiSaSKy0u5uvLRywUsYo2AzsbGT2NQf8ACeaR/wA+fiD/AMJzUP8A4xXn3iC7a78c32s2Oma3c211Z28Cqo1zTHRo2lJJFvasHB8wY3HjBx1NV/t1z/0L3iD/AMH3ib/5DoA9R0vxhpGr6uNLtft8V6YGuFivdMubUtGrKrMDLGoOC6jj1rYuLiK0tZbi5kWKGFDJJI5wEUDJJPoBXkHhi8On+PI9b1DTNbtraPTZrTYU1vU3Z3lhcEfaLVdgAjOcHnI9K9hjcSxLIoYBlDAMpU8+oPIPsaAOU/4Wr4C/6G/R/wDwMT/Gj/havgL/AKG/R/8AwMT/ABrra87tLvVvipYRzQrcaD4VmysoMii8vwCVZMoSIo8ggkMWbnG0ckA7nS9VsNb02LUNIvIb2zmBMc8DhlbBwcEehBH4VbqvYWFppWnwWOm20dra26BIoYlCqijsBXFfFTxemh6PBodlO6arrksdnG0Qy1rFJIsbTn0A3gDPViPQ0AdJH4u0OXTbC/iv1e11K6FpayrG5EspJAXpxyp5OBx1rZrivE2m2ukWXgzTdPiEVraazbQwxj+FVikA/lUviDxPf3erDw54I8mfV1dDe3cq77fTYs5JkwRukYcLGDnnJwBmgDsKjuLiO1tZbi4bZFChd2wThQMk4HtUgztG7k98CvN/iN4h8XaH4R8SSyaFYXGnC0nWG9t9RKyRKylVZ4mQZIyM7W7cUAd7peqWWt6Xb6lpVwtzZ3Kb4Zkzh19eat1yHgG41qDR7LRtU8KXWi2+n2MUMc815BKJCiquAI2JHAzkgV19AGBq/jrwr4f1A2Ot+INPsLoKHMNxcKjYPQ4NUf8AhavgL/ob9H/8DE/xra8R63F4b8O3mr3EElxHaR7zFFjc/IGBkgd+5rn73xvrun2Fxe3ngDWI7e2iaWV/ttkdqKMk4E+TwO1AE3/C1fAX/Q36P/4GJ/jW1oniXRfEsEs3h/VLXUooWCSPbShwhIzgkVy3xVulvvgZr13GpVJ9M81VbqA2D/Wu1vnuo9PuH0+KOa7WJjBFK5RHfHyqWAOATgZwcehoAp3Ou2tt4lsdDKTSXd7BLcL5agrFHGVBZzngEuoHByadrGu2mh/YPtvmf6feR2UOxc/vHztz6DjrXlQ8UXGneLtXvNa8X+CNM1SfZayRTTS3RtIo/wDlkFLRfxF2PTJb0UVUura7t/BOg29j4lsL7So/E1p/ZmrWqArAh3goVZmG1H+VcseMA9OQD2ya6t7ZoluJ44mmfy4hI4UyNgnauepwCcD0rM1vxDH4fuLR9RgdNOuHEL3ynKwSMQEDjsp6b+gOAcZzXM6haeGPB2m3XinVrl/EGqWcRaO4vbhJZ2f+FIV4SMscABFGc967e7s7fUtPms7+BZbe5jMc0MgyGVhgqfwNAE9Fcb8Nby5Gi6hoV/NJPceHtQk00TSnLzRKFeFz7+W6AnuQTXZUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFMiminTdBIki5xlGBH6UAPooqOW4hgx50sce7pvYDNGwbklFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcJ8OI/sWveO9PlJ89fET3ZBGPkmgiZD+h/Ku0u7K11C38i/tobmHcr+XNGHXcpBU4PGQQCD2Irl/EGm3Wi+KIvF+jW8lzuhFrq1lCuXuIASUlQd5IyW46srMBziuqtbqC+s4bq0lWaCZBJHIpyGUjIIoAlqtqOpWWkafLfapdw2drCu6SadwiqPcmjUbNr/AE6e1S7uLNpUKi4tmAkj91JBGfqDXNWnwz8PR30V9qovNevIjujn1i6e68s+qox2KfcKKAKPw5WXVdY8T+LzBJb2eu3cX2FJYyjyQQxCNZSDyA5yRnnGKm8XH7F8SvA2oycQtNeaez9g00IdB+JhxXbVj+KPDlt4p0KTTrmWS3fek1vcwnElvMjBkkX3BA+oyO9AFqTWbKPX4NFaX/Tp7Z7pIwCf3aMqkk9uXGPXn0rK8f8Ah7/hKPA2p6bFkXZiMtnIvDR3CfNGwPYhgKZ4X8JXGjaheavrmrvretXiJDJeNAsCpCmSsaRqSFGSSeeSc+ldNQBm+Hby81Dwxpl5qltJaXs9pHJcQSLtaOQqCykdsHNO8QXNxZ+GdUubEE3MNnLJCAM5cISvH1ArQoIyMHkUAcx8Nra0tvhj4dXT2DxPp8UpkzkyO6hnYn1LMxPuTV9vC2ltr0+q+T+8uolS5gwDDcMjBkkdCMGRcYDdceuBjm18E+IPDFxK3w+1y2t9PlkaT+xtUt2lt4mY5bynQh41JJO3kAngdq7DSTqR0m3OuraLqGz9+LNmaEN/slgDj6igDmPiPuMfhdQu5D4kst4xkYDMR/48B+OK2YvFujy6bZ3/ANqKW19eGytpGjbEsu9kAGB0YocE8EEeoqj8RPDN74t8F3Gm6PdpZakssVxZ3LkgRSxyKwOQCexHTvV+fwno114Si8NXNmsmlwwRwRxZIKBANhDDBDDAIYYIIzQBs0VxR+HVwuFg8d+LoYwMLGLyF9o/3niLH8Sa6SwsX0PQRbRTXuqyW6OytdTB55iSWClzgZ5wM4AGKAPPviDqkNp4+tre71W2tYTpm/yb3xTcaNFu80gMpiB3tjIIPQAVySa9YnxRPC2v6P8AZBZxuqn4nX4iDl3BIk25LYC5XGAMHvXfXtz4qvLySeGy8cWCPgi2tm0No4+OgMjMx9eSaxk0/wAZL4on1ExeOBHJZxwCQNoXmkq7sQRnbt+YYI5yTnjFAFj4daqLv4gahbWmp293Zrpccnl2fiafWYlkMrAkvKBsbAHAHTB713uueG9N8RxQx6otyRAxeM217NbMCRg8xOpP0NclZXHiq0vI557PxzfRocm3uG0NY5OOhKMrfkRXfW8jy2sUk0LQSOgZonIJjJHKkgkEjpwSKAOW/wCFZeG/+ox/4P77/wCPVyfwv8AaDqXw30u6uv7U82Tzt3lazeRLxM44VJQo4HYV3Gv65r+mX0cOjeErjWoXj3GeK+ghVGyRtIkYH0OQD1pvgDQrvw14D0vStSMZu4I2MwiOVV2dnKg98FsZ9qAJdH8F6NoWofbdPF+Z9hjBudTubhQDjPyySMM8DnGa43x14Yt9G0GXUZLia+1HUNf09pru4xuEYvI9kSgDCooPAHU5J5NeoVyHxLsrq/8AC9rFY201zIurWEhSGMuQq3MbM2B2ABJPYCgCH4l2J1K18O2Yuri087XIFM9rJskQeXJna3Y9s9R2rptF0PTvD2mJp+jWqWtshLbVySzHqzMeWY92JJPesjxxpmqX+n6bc6HBHdXemalDei2kkEfnqu5WQMeFO1yQTxxVR/FPi6SHba/D69juGHButStFiU47lJGbGfRc0AdgrBlDKQQRkEd68m+J8PjePw7JYNf6Hf2Op6na2sAe3lgmXzLlNiMwZlI6AtgHGTjOK77wXoU/hvwdp+lXs63F1Cha4lXO1pXYu+M9tzHHtio/Gvh+48ReHlg06WOHULS6gvrN5gTH50MgkUPjnaduD9c0AGht4vna4TxRDo9pGY8QyaXcySuG9SJI1Ax26/Sqfw/16/1fTtSsNckWbVNF1CTT7mdECrcbQGSXaOBuRlJA6HPAqs3iXxyymCLwBsuMYFxLq8H2YN65GZCv/AM/StLwT4Zn8N6Tc/2ndJearqV099qFxGpVGmfAwgPIVQqqPYZ70AVfikxX4X64yqXItwQoPX5hxzWV4p8TeIrjwdrML+AdXhWSwnQyNeWTBAY2GSFmJOPQAmvQJYo542jmjWRG6q65B/CnUAedfEMEfs76mCMEaMmQf91a9Frzz4hr4p8S6Lq/hXTfCkpt76MW6as9/AsKg4Jcpu8zjnjbnI/GvQ6APItG8T/2VqHiG2/4TrwnouNbuz9k1WDdMMydSftUfB7fL+JqtZaxbW/wxjvNSvNMvNOuvFtwl9O1uklrcQvey7mVWLgKc5ByxAxyetdv4akl0LR/EF3f2V7tGs3cyxxWrySSI0nDIijcwPXgHIrmorHVF8BQagujX7MviqTVjZ+Ti4+ztevID5Z53bGB29aAL2lWeiXGs20/gf4eabDAjqZNXudPSxUJnnyh5fmO3HB2henzV6NXD6p4/uLnSrmDwv4e1+bV5ImW0F3o89vCshGFZ3lVVCgkE85wDitbxHrGo2VlBpujRLda9epti+X91AOA07+iLnOOrHAHXgAxvh4guPFHjvUom3QT635CH1MMMaP/AOPZH4Gu7rJ8MeH7fwv4ctNItHeVYFJeaT780jEs8je7MST9a1qACiiigAooooAKKKTeokCFhvIJC55IHU/qPzoAWiuflm8V3GqsltbafZ2McuPMmkaR5kz1AH3cj1q3rd3rFmkUuj6fDfoufPiaXY5HGNp6evX2rL2qs3Z6eRt7J3SutfP+kaU88VtA81xIsUUalndzgKB3JrO1O61OTT4JvDSWdy0xBD3EhEYQjIb5evbp61l3McHjOOyhnmls4om8+80yZNsrjJChueF3L6c8dOK6dEWONUjUIijCqowAKSk6l7aLv1G4qla+r7dDO0yTV49Pmk19LQzqSyrYB2BUD0bktnPT2qtB4li1TQbm90GJry5hUg2bEJIr/wB1gen9cHGa2658aRcR/EA6nbwLDaSWJSeRSMzSbhgEdeB39sUpqcUlF3W3n6/IcHCTbkrPfy9PmWvD1lqdraSS63fNc3Vw3mNGABHB/sp3x/n6w2ng7RdP1SLUNOtmtJo8giGVlVwRjDLnBrcoqvZQsk1e3fUh1p3bTtftoc/a+KlvvFUui2lhOxtiwuZ3wqx4A2keuTx29akm8GaDcalNf3Ngs1xM+9mkdjg+wzgVPoWhRaHDc4la4uLqZpp7h1wzkngfQD+vrWrUQpucf3yu/wAjSdRQl+5bS29TH8Q2usSQw3WgXYjuLYljbSKDHcjj5Sex44Pv+NaFhcS3WnwT3Ns1rLIgZ4XIJQ+mRVisG41S7tfHVnp8jqbG9tHMS7QCJUOTz3+XtVStTlzNvWyJjepHkSWl35m9RRRWxgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVV1C/j02za5mjlkRSNwiTcQPXHoKUpKKuxxi5Oy3LVNSWOUsI3VyjbW2nO0+h96z7jXbGLRJdThnSaBFO0qfvN2X65qDwzpr2OnNcXY/029czTk9cnkD8M/qay9reajHXS/8Al95t7K1Nylprb59fuNmiisPxMitJo5Iyf7SiH4ENx+gqqk+SPMRSh7SaibhIAJJwB1NMhniuYhLbypLGejowYH8RT6w/BqBPClqFH8Un4/vGoc2qih3Tf3W/zGoJ03Ps0vvv/kblFFQLe273z2ayg3EaB2jxyFPerbS3M0m9ieiqlhqUGoNcLCHV7eUxSI4wQR/Q1Il9bSX0tmkoNxEoZ48HIB6GpU4tJp7lOEk2mtiekd1jjZ3OFUEk+1LR161ZBBZ3kGoWiXVnJ5kMmdrYIzg47/Sp6xPBxz4Rscf3W/8AQjW3WVGbnTjN9UjWtBU6soLo2gooorUyCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKZNNFbwvNcSJFFGNzu7BVUepJ6U+sfWPEmhaXP9g1q8iieaLcYpULBkORzwRg4IxVRi5OyVxSaSux/wDwlGgf9BzTf/AuP/Gnx+I9EnlSK31jT5ZZGCoi3SEsx4AAB65rCHiPwGAAJtNAHQC2H/xNKvibwKkiulxpyujBlYW+CpHQj5etdPsf7kv6+Rj7T+8iSy8Qajc64o+zSeUsn2W9swAzWknJWUMAN0bDuenX2rqqytG1nRtbmuZ9GminkTas0iRlT32gkgZ71q1jV+K3LY0hte9wqpqOqWWkwJNqVylvFJII1d+m49B7dDWVceLItO1s2OtWkthFI+22vHIMM31YfdPsf0rNuQvivx1FbqBJpmhnzJTjKyXB6L77f8auFF3vPa1yZVFtHc7Kiiiuc1Iba7tryMyWdxFOisVLROGAI7ZHeoZtVsoNVt9Nmn23dyrNDHtPzhRk84x29awPh6ANEvsAD/iZT9P96n61Go+InhmQD5mju1J9QEXH8zXR7KKqSh2v+CuZc75FL0OoooqpqmoxaTpdxf3CSSRW6b3WJdzY9hWCTbsjRuyuW6KxNU8TQabZadfiLzrC8lRGuFfAhVx8rEY5H8qu6zrFtoWlSahfbzDGVBEYyxLMAMDv1q/Zz003FzR18i9RSI2+NXAIDAHDDBH1FLWZRnT63b2/iC20d45jcXMTSo4UbAFzkE5znj0rRrj9cu7ey+JWhy3k8cEf2Wdd8rhVyegya69WV0DowZWGQQcgitqkFGMWuq/VkRldtdhaKKKxLCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKwtJ0CaHWbrV9YnW6vpGZICudlvF2VQehPc//XyzxHDfXuq6LZ2gnS2NyZ7maIkBVQZClh0yTXQVjZVJ6r4Ta7pw0fxfl/wTxf4V/C3wfrnwv0TUtV0lp7u4hZpZPtc67jvYdFcAcAdBXXf8KX8A/wDQCb/wOuP/AI5R8Ff+SNeHf+vdv/RjV3VbGJwn/ClPh/v3/wBgfNjG77bcZ/8ARlL/AMKX8A/9AJv/AAOuP/jlburzalb+JtC8i+WOwuLloJbVYATIfs875LnJxlEwFAOQckg4HP6/4sWPxVeWJ8Q3GjxaaId4g043EZZhuLXD+Wwji2soB3R8hju9AB//AApfwD/0Am/8Drj/AOOUf8KX8A/9AJv/AAOuP/jlX/FdpqgubdtL8U6pYT39wltb2sMNo0SnBZ2/eQMxwiO+N3OMDGa0/Fl7Pp/hW+uLOd7ecIFjmjQO0bMwUMAQQcZzgg/Q0Ac7/wAKX8A/9AJv/A64/wDjlH/Cl/AP/QCb/wADrj/45SW+tala6HqEC3urSaut1awBNaitRJbpcTLEsqi3UIy8swyScoQccipJ9V1rRl1TRzqTajeRNYG2vbmGNXRLucwZZUVUYoUdhgDIwCO5AGf8KX8A/wDQCb/wOuP/AI5R/wAKX8A/9AJv/A64/wDjlbPh+e/tdb1LQ9T1GTU3tYYLqK6mijSQxymRdrCNVUkNC/IUcEemT0NAHkXiLwD4b8J+L/BF34f09rSebXFidvtMr7l8iU4wzEdQK9L1HRY9Q1bTL9pWSTT3dkAGQ+5cEGuX+In/ACMXgP8A7GBf/Seau6qZRUlZlRk4u6Oft9V1Gz8VyaXqyLJb3e6SwuIoyAAOsb+4GOe/44HQVX1C5ks9NubmGITPDE0ixltu/AzjPaotG1FdX0W01BF2C4iWQrnO0kcj8DxUQ92XI3fr8jSfvR50rdPmXaKKK1MQooooAKKKKACiiigAooooAKKKKACiiigAooooAKRmCKWYhVAySTwBSk4BPX6VzksOoeJJTFcRSafpaNhkfiW4x2P91f8AP0yqVHDRK7ZrTpqesnZLf+upkSac+sarPqWgW8a2lu4YRvkR3kink46fj/ia6zSdVh1ey8+EMjq2yWJ/vRuOoNW4YY7eBIYECRxqFVR0ApUiSPd5aKm9tzbRjcfU+9Y0cO6UuZPff18uxvWxCqx5WttvTz7/ANdB1Zet2c942mm3Tf5F9HLJyBtQBsnn6itSo5547a3eaZtscY3M2CcD8K6KkVKLUtjnpycZJx3FmlWCCSaQ4SNSzH2AzWT4RRk8KWW8YLKz/wDfTk/1qrcz3HidPsljHLBprn99dSLtMq/3UB5wfWuhijSGFIolCoihVUdgOgrGD9pV51slb1vb/I2mvZUuSW7d/S1/8x1Zl9pck+s2GoWzrHJblkl3Z+eMjp+dadNllSGF5ZW2ogLMT2AracYyVpf1YwhKUXePp95RktrPTLq81eR2j3xDzsn5SF6HHr2qt4ct5Dbz6ndKVuNQfzSp6onRF/Afzqsqy+KLiOSWN4dIibciOMNdMOhI7L/OuirCmlOXOl7q28293/XmdFSTpw5G/ee/klsv8/kFFFNkcRxs7ZwoJOK6jkOP8OeHorjw7aXlndXFjeOpLSwvwxDEfMp4PSug0o6srSw6usLiPHl3MRx5v1XsRVbwd/yKNj/ut/6Ea264sLRiqcJR00Xo9Ox3YqtKVWcJa6v1WvcKKKK7ThCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKTaNxbA3EYJx1/zmlpsr+VC8m1n2qW2oMk47AetAHO/EC4EHgm+TrJcBYI17szMBgfhk/hW7Y2/2PTra2yD5MSx5HsAP6VzNnaah4n1y31XWLSSx06xbfZ2cvEjyf8APRx2x2H+T1tb1PdgqfXdmUdZOQUUVka/Lrgiig8PW8JkmOHupnG23Hrt6sayjHmdjRuyuZnjHU1uIj4c0+CO91K+Xb5bqGWBD1kf0x296z9KtLz4f3Vrp7br7R76RUEqR/vIJ2wOQOqsfxH4c9FoHhy20KKRxI91e3B3XF5Ny8p/oPatiuj20YR9nHWPXzffy8vxMvZuT5nowooorlNjF8LaNcaJp1zBdvE7y3cs6mIkgKxyByBzWfeMb34pabDGdw0+ylmk5+6ZMKPx6Ve1fWdSgu/sGjaPPdXLKCLiUbLdM9y+eceg5p/h7QTpC3FxeT/a9SvGEl1ckY3Hsqjso7V1czV6k92tPmY2vaEdkbNNkjSWNo5VDI4KspHBB6inUVymxiad4YtbTwuNCvXN9aZYYkG35S24Lwc8fWs6+CeIfFlppMA3WGjsLi7YHKtKB+7j98dTV/Xr3VnuF0vQbRxNMuZL+VSIrdemQf4m9AKu6JottoWmraWu5jkvLK5y0rnqzH1NdXO4pzk9Xt892Y8qb5UtF/VjQooorlNjjtes7a/+I2jW17BHcQvZz7o5FDA/galk8H3OkyifwfqL2PzZayuGMlu/4dV+o/SptQtrmT4k6ROltK1vFaTB5ghKKT0BPQHiumrrlVlCMUnpbbpuzCMFJyb7/wCQUUUVyG4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBxvxb/AOSW6v8A9sf/AEclcb/wgXhr/oG/+R5P/iq7L4t/8kt1f/tj/wCjkrPr0cPJqlp3f6HJVSc9exzv/CBeGv8AoG/+R5P/AIqj/hAvDX/QN/8AI8n/AMVXRUVvzy7mfKuxzv8AwgXhr/oG/wDkeT/4qj/hAvDX/QN/8jyf/FV0VFHPLuHKuxzv/CBeGv8AoG/+R5P/AIqj/hAvDX/QN/8AI8n/AMVXRUUc8u4cq7HO/wDCBeGv+gb/AOR5P/iqP+EC8Nf9A3/yPJ/8VXRUUc8u4cq7HO/8IF4a/wCgb/5Hk/8AiqP+EC8Nf9A3/wAjyf8AxVdFRRzy7hyrsc7/AMIF4a/6Bv8A5Hk/+Ko/4QLw1/0Df/I8n/xVdFRRzy7hyrsc7/wgXhr/AKBv/keT/wCKrpfhDbx2mha3b267IodbuERck4ULGAMn2plT/Cn/AJBniD/sPXP8krKvJuk7sumkpqx3dFFFeYdgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVw2paDpcmrXb+X5rPKXc+YeGPJHB9TXc1xUdpNZ3+oi4XaZbySVOQcq2CDXBjYqSinG56GBk4uTjKwt3Ct9arbXZeWFSCqNI2BgYHeksLePTFdbDfArkFgsjc/rUtFcdlzc3U7uZ8vL07FKLSLKG6W5ihKzK28OJGyD69amv7KDU3R78NOyDClpG4H51PRU8kLcttCvaTvzX1GJCsenGwQutqVK+V5jYweSOvvUNjp9tps5msUaGQrtLLI3T06+1WaKfLG6dttieaVmr77lO60mzvrp7i7iMsz43OZGycDHr6CrN5CuoWy294XliUgqjSNgEDA7+9Poo5Y66b7+Y+eWmu23kR2FummRulhvgVzlgsjcn86rQ6RYwXS3MMJWZW3q4kbIPr1q7RS5I2SttsHPK7d99yC/soNTkR79WnZBhS0jcD86esKpp32BC4tdpXyvMbGCcnvUlFPlV27asXNKyjfRFax0+202czWKNDIV2llkbp1x19hVvTNKWfxVDqQfEsau0u4ljJldo78YzTaqW+oSJ410y0tBLKcSNcxxNgKhXAZu2Aef8iiKhFxVtLr77hJzkpNPWz+6x0qay7eMZNFMShFshdCTPJO/bjFa1c82l3cfxFTVI0Z7WXTzbyMWGI2DhgAOvP+NdDXr0nJ83N3PHqqK5eXsvvOF+Cv8AyRrw7/17t/6Mau6rxf4VePLnTPhdolmngrxRfrDCwFzaWsTRSfOxypMoJHOOgrrv+Fl3f/RPfGX/AIBQf/Hq1MTa8QaPr2papp9zpGr6dZRWMhmWO602S4ZpCkkZJZZ0+XbJ0xnIznHFQ654UutUnv0stUSzstWhEOowta+Y8i7ShMb7hsYodpJDjgYAPXL/AOFl3f8A0T3xl/4BQf8Ax6j/AIWXd/8ARPfGX/gFB/8AHqAOputKN14h0/UmnxHZQzqINmdzybAH3Z42qrjGOd/UY5J7DUZG1AwaxJF9oVPsoNvGwtSByRxlwx5IY/QiuW/4WXd/9E98Zf8AgFB/8eo/4WXd/wDRPfGX/gFB/wDHqANE+D7i9t9Ql1rU0n1S9+zYurW28mOH7PIZYNsbO5+WRmY5Y5zjgUv/AAiFxd6ff/2zqi3Gp3skEn2q2tvJSEwOHh2RlmOFcbiCxySegwBm/wDCy7v/AKJ74y/8AoP/AI9R/wALLu/+ie+Mv/AKD/49QB0Wh6Nd6fPd3urX8d/qN5sWWWG3MEaogIRFQsxAG5jyxyWPbAGxXC/8LLu/+ie+Mv8AwCg/+PUf8LLu/wDonvjL/wAAoP8A49QAfET/AJGLwH/2MC/+k81d1XkPiPxdPr3i/wAD28vhXX9JCa6r+bqUEcaN+5lGAVkbnnP0B+levUAIwVkIcAqRgg9MVR0SDTrbRbeHRXR7FQREySeYCMnPzZOec1B4o1RdH8NXl0eZPLKRKOrO3Cj8zTvDOmvpHhmwsZeJIYQHA7MeT+pNY8ydXltsv6/ryNuVqjzX3f8AX3X/ABNSiiitjEKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDjfi3/yS3V/+2P8A6OSs+tD4t/8AJLdX/wC2P/o5Kz69Ch/C+b/Q5avx/L/MKKKK2MwoorkIfiAt5Jcf2f4Z168jt55LdpoIYShdGKtjMoPUelJtLcdrnX0Vi6L4q07XLqa0hFxa30ChpbK8hMUyqf4tp6j3GRVnWtd0/wAP2IutTmMaM4jjRVLvK56IijlmPoKLq1wszRorl4/HVpHcRJq2lato8U7iOK5v7cJEzHoCys23P+1itHWddl0iaJItD1TUxIpJexjjYJ7Hc680uZBZmvRXG2nxFF9NcxWnhXxFK9pL5M6rBD+7fAOD+99CK6qxumvbGK4e2ntWkXcYbgASJ7MASM/iaFJPYGmixRRRVCCp/hT/AMgzxB/2Hrn+SVBU/wAKf+QZ4g/7D1z/ACSsq38Jl0/jR3dFFFecdYUUUUAFFFFAGR4q1xPDfha/1VlMj28R8mJRkyyn5Y0A7lnKgfWs/VLvXND+FN7fXNwlxr1jpEk7yiIbXuEiLH5BxgsMYFcX4m1q88S+OPDclvug8O2HiBLRPMjIOoXarIWYZ/5Zx+WQD3bJH3RXSapH4/1zTL6xbTPD2n291DJCfNvZrhyrKR0WNADg+v8A9cAv3Xie+0vTdF1G609rrTrqKMXtzbkmS2dwu1/KA+ZMnBIOVyDgjOOorzLwFaeMNb+H+iXQ8WWtjC1lHGsNrpIMkRQbCrPJIwZgVwTtHOePT0DSLK50/TY7e+1KfVJ1LFrq4SNHfJJ6RqqjGccDtQByWleJPG2v2kt9pGi6B9jF1cW8RutTmSRvKmeIkqsDAZKE8E8Go9P8S+PNS1TVbCDQvDqy6VOkE5fVpwrM0SSgri35G2QDnHOfrWd4H03xdceG5ZNI8R6bZWbapqPlwT6O07p/ps2cuJ1zk5P3RjOO2aj8NaX4zfxd4wW38UaVHMmowCd20RmErfY4CCo+0DaApUYyckE55wADotO8TeI4/HFn4f8AEml6Xb/bLKa6imsL2SbHlsikEPEmM+YOmeldjXmlvaa7a/GzQx4h1az1Jm0a98o2tgbbYPMgzkGR92ePTFel0AFFFFABRRRQAUUUUAFcWt7Le6hqJn25hu5IVwMfKuAK7SuRnmtZtRvDZKqhZ2STam3MgxuPuc964sXtHU78HvLQbRRRXEdwUUUUAFFZllr9rf8AiLVNGhjmW40tYWmZlGxhKrFdpzk/dOcgfjVXW/F1hol9Fp/lXWoalMhkSxsIfNlKDjeegVc8ZYgU+V3sTzK1zdorA0fxjZarqf8AZk9rfaVqJjMqWmowiN5EHVkIJVgO+CSO9aWsarbaHot5ql8WFvZwtNJtGWIUZwPc9BRZ3sHMmrl2iszw9r1t4l0WPUrOKeBHd42huUCSROjFWVlBOCCD3rTpPTQad1dBRRRQMbJIsUTySHCopZj6AVt+H7PThajVNPQF7+NHkmwQZABxwenWuev7drvTbm2RgjTRNGGPbIIz+tdbpNl/Zui2VkXDm2t0iLgYDFVAz+OK6MMr1LtbHLipWppJ6v8AIt0UUV6R5hwvwV/5I14d/wCvdv8A0Y1d1XC/BX/kjXh3/r3b/wBGNXdUAQTX1pb3VvbT3MMU9yxWCJ5AGlIUsQoPLEAE8dgTWZqXjPwvo181nq/iTSLC6QAtBdX0UTqCMjKswPIqHXLS3Hibw5eCCIXLX7RNOEG8oLW5IUt1wCSce5p3iGT7VqWk6L/BezNNcD1hhG4j6FzEpHdWagDRudZ0uy1C3sLzUrS3vLr/AI97aWdVkm/3VJy34VLfX9npdjJeandwWdrEMyT3EgjRBnHLHAHJrzrx2LiztfFscGnRXk2pW0bW94J4gbSUR7IUZWbfnzV3R7VILOc7cZr0eK9tZ7qe1huYZLi22+fCkgLxbhldw6jI5GetAGZaeMPDN/Z3d3Y+ItJubayUNdTQ30bpADnBdg2FBwevoasad4h0XWLGa80nV7C+tYCRLPa3KSJGQMncykgcc89q5pEbWvBtxqv2u2tZNVvoZ0nuXwggW4QRJn/ajUYHd5D0zmqWq3Vwum6xpOrajLqlrY6jppku5I40YRvcRGSKTYqrhVGTwPkfn1IB3Gm6rp2s2Yu9Hv7W/tmJUT2syyoSOo3KSKt1zejeX/wnniH7Hs+z/Z7PzdnT7R+935x38vyPfGPaukoA4X4if8jF4D/7GBf/AEnmruq4X4if8jF4D/7GBf8A0nmruqAKGpaNa6tNZyXgdvscwnjQNhSwHG4d8f571m6Hd3q+J9c06+kklRJEuLZ26BHX7o9ACP510NZv9sp/wlP9iCFvM+x/azLnjG/Ztx696xnGKkpXtr9+ljeEpOLja+n3a3NKiiitjAKKKKACiua0DxKLvW9Q0i7b9/Dcy+Sx/jQOePqP5fSulqKdSNRXiTGSkroKKKKsoKKKKACiqer6tZaFo91qmqymGztIzLNIEZ9ijqcKCT+AqTT7+21XS7XULCTzbW7hSeFypXcjKGU4IBGQRwQDQBYoorD8Q+NPDnhOSBPEer22nNcBjEJ2xvAxnH0yKANyiuK/4XF8Pf8AobNO/wC/h/wrU0Dx94W8U372Xh7XLTULmOIzNFC2SEBALfTLAfjQB0NFFc9oHjbSfEOoXWmwmey1SzYifT76Lyp1XPDhT95D1DKSOaAOhooooAKKK5Cx1vUZfjFquhyXO7ToNIt7qKExr8kjSOpO4DJ4UcEmgDr6KKKACiuX1r4j+GPD+tSaTqd7cLfRRrI8MGn3E+1WztJMcbDnB71S/wCFu+Dv+fvUf/BLe/8AxmgDtaKx/DXivRvF9hPeeH7p7mG3uGtpS9vJCySKFYqVkVT0Ze3etO5mNvaTTBdxjRnCk4zgZxmgCWisXwd4i/4S3wdpuvC1NoL+ESiAyb9nJ43YGenpU/iW9vdN8Lane6VD517b2skkEfll9zhSR8o5b6Dk9KANOiuP8F61NqWqahbQa7/wkemwwQyR6j5ca7ZmLh4cxqqnAVDjG5d2GJOK7CgAooooAKKxvFeq3uheHptU0+1W7+xlZriEg7mgB/ebMfxhckDvjHeudPiKK3+KOoXNxqbLokPhe3vuZj5KgzzZlxnGSqjnrgCgDu6K5BfFWrQ+FtC1K/sIre51XUIIWtmDAwwzSELnn74QrkdN2RTodQvG+M15pxuZDZJoFvOtvu+QSNcTKXx64UD8KAOtorn5F8RWXjOJ4nXUNBvgVljYIkmnyKnDKeN8bbcEHLBmBHHAzbT4oaLf2cV1Y6b4iubaZQ8U0OgXbpIp6EMI8Ee4oA7KivI5/Gaan4u8TWqnxhaQy6fZfZfs2k3he1l3TlpBFsO3O1OoAcKw5wa9F8Lapcav4btLq+imiu9gS4EtpLbZkA+YrHIAwUnOMigDXooooAKKKKACiisqPxLpMviuXw0lyx1aK1F49v5LgCEsF3b8bTyQMA59uKANWiisnXbbW7lYF0DV7PTHBPmG6sTc+YOwAEiYxz60Aa1FcXNZeOYoZ2TxjokjwIWZBoLZGBnn/SeKo+H5fHOt+FdI1mXxZolp/adnDcrC2iM2wyIH2bvtI3YzjOBn0oA9CorC0Sy8S219I2va/p+oweXgQ22mNbMrkjDFjM+RgEYx368c8vr/AIp1aLx9qOj2+pXFlZW1lbSqbPQJ9RkLyNLuy0YYR4CLgMpzu46GgD0WivKT4uj07wpqWr6NrviHU7iaGCWC81bSJltXDyoqiJBFGrFvMGFT5mB4zinzeIIry6js9Y8VeKvtBjM62WmeGLuzMqqQC3MDSbQWUHDgZIz1oA9Toqrpt9HqenQ3kMVzEkoyEuoHhkHOPmRwGU8dxWDY+KpdV8Y3dtp5tv7C02Mw3V65P7y7JH7qNs4IRQd3XlgOxoA6iiuJ8O6y50nxjfPq8QjttVuRDdXsxeC3VYo8Z+YYQHJIBHfpWp4S8Urr9q9tfRrZ61ZgLfWW7Ow9pEP8UbdVYcEH1BFAHRUU2WVIYXlmdUjRSzMxwFA5JNedT+J/EE/wn1zxTBdC1e5Zp9HDQKTBbbgsZYEfMWHz89A4HagD0eiop54rO0kuLqZYoYULySyEAKoGSxPQDAzTLC/tdU0+C+06dLi1uYxJDNGcq6kZBFAFiiiigAorjdSu5vFvi248NWcjw6Vpio+sTxthp3cZW1UjoNuGcjnBVf4jWxrL+JLd4E8MafpE8ATD/brySAoewUJE4Ix9KANqivMhqPxDX4iyo1hogC6SjeQdXuRbD983z/6jG/jH3egHPanPqHxE/wCFixRf2fon/IKdvs41a4+zn96o3n9x9/sPl6E89qAPS6KxdEm8Uy3Ug8R2GkW0AT921hfSzsWz0IeJABjPOT9Kg1XTfFk+pSS6N4k0+ys2C7Le40gzshxz84mTOTz04oA6GivONQuvHth4y0XQf+El0eT+1YLqbz/7DceV5Pl8bftHOfM9RjHfNbY0fx3uG/xfpG3Izt0BgSPqbk/yoA6yiszX9EXXNO8lbmWyuom821vIPv28oBAYdiOSCp4IJB61R8HeIptd0+5g1OFbfWNLuDZ6hCn3RIACHX/YdSrj2bHagDoaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAON+Lf/JLdX/7Y/8Ao5Kz60Pi3/yS3V/+2P8A6OSs+vQofwvm/wBDlq/H8v8AMKKKK2Mwrj/ht/yAtS/7DF5/6NNdhXDfDzUrG20bU47m8t4XGsXh2ySqp/1p7E1D+JFLYm+IEYs7rw7rluAt1aarDAXHVoZjsdPxyD+FN+XVfjOUuPnj0bSxJBGRwssrkM/12qB+JqHWL6Dxt4j0rSdEkW7sNNvUvtRvIjuiUx5KQhujMWwSB0AqTXZR4W+IVt4ju8rpN/Ziwu5tuVtpFfdG7nspyVz0HGal736FdLHVavpVrrmj3WmX6F7e6iMUgHUAjqPQjqD6irFrbi0s4bdXeRYY1QPIcs2BjJPc1g+IPGem6Tozz2V1b317Ku2ytIJBI1xKfuqApyRkjJ7Ctyya5awga/SNLoxqZljOVV8fMAfTNXdXI1sct4I/5DvjD/sMH/0VHXYVx/gj/kO+MP8AsMH/ANFR12FKOw5bhRRRVkhU/wAKf+QZ4g/7D1z/ACSoKn+FP/IM8Qf9h65/klZVv4TLp/Gju6KKK846wooooAKKKKAOK+In/IS8Ef8AYyxf+k1xXa1i+IvDv9v3Ohzfavs/9k6ml/jy93m7Y5E2dRt/1mc89OnNbVAHF+DJBofiTXfCU5CeXcPqenKeN9tOxZgP9yYyD2DL610kGuafcJqTpcALpczQ3hZSBEyxrIfr8jqcj1qh4o8Kp4iW1ubW9m0vV7Bi9lqMChnhJ+8pU8OjAYKng8dwDWUfh60/gi80C+1qaWTVLtrnVLyKIRtdB3BkjVcnYrIAgwThfWgDB+HfhHUb3wBpl+PFniDSxfq96LS2Nt5cQmkaXjfCzc788setJ4a8I383i7xhEvjTxDC0GowK0kZtd0xNnA258wEZAO3gAYA4zkn1CGGO2t44IEWOKNQiIowFUDAA/Cs/TNEj0zWNZ1COZnfVriO4dGAxGUhjiwPwjB/GgDh7fRrjR/jZoa3Ou6lrBl0a9IbUDDmPEkHC+XGnXPfPSvS65LSPCGqw+Lo9f8ReIF1We2tpbW1jhsRbLGkjIzFsM24/IozwOvFdbQAUUUUAFFFFABRRRQAVx72BsNQvlMm/zrlp+mMbsHFdhXEQtO1/qf2kyEi+lCeYT9zIxjPb0rhxdvd0O/B396z0J6KKK4zuCiiigDi/Df8AyVrxt/1x07/0XJUXw026j/wkOvzfPdahq00e8jlYYjsjT6AAn8TUvhv/AJK142/646d/6Lkqp4Yvrfwb4j1jw5rcyWkV3fSX+lzzEJHPHIdzRhjxuRs8dcEGtn1S7IwWjTfdnWatoFnrF3pt1deYk+mXIubeSJtpB2lSpOPukHkd8CsTx2xv59B8Opz/AGrqCPOuetvB+9k/Mqi/8CqbUfGCP4i0zRPDjW2pXlxMHvNj71tbYAlnYrwGPAUHqTWJPo6eNfiZqk015f2lroVvHZQyWN00DNNIPMk+ZeeAYwRUxTWrKk09EaXhtv7J8f8AiTQmOI7pk1e1X2k+SX/yImf+B12Nea6voUfgnxZ4d8QQajqd1DLdHTbxr+8e42xzD5DlidoEirn6ivSqU+jQ4X1TCiiioNAIyCKteCLu9fTbmx1MzST2M7Is8uT5yH5lOT1649uKq1TF7qL+KLDS9IuPIMqtNdPsDbYgR0z3JyKqnP2c1L5feRUh7Sm4/P7jvKK5+yPiuDUI4dQXTbq03fNcRFkk2/7p4zXQV6sJ8yvZr1PInDkdrp+hwvwV/wCSNeHf+vdv/RjV3VeL/CrwdrmofC7RLq08daxp8MkLFbWCG3KR/OwwCyE+/J7113/CBeI/+ik69/34tv8A43VkHR6r4T8Oa9dLda5oGl6lcIgjWW8so5nVQSQoLAnGSTj3NabW0DXUd00MZuI0aNJSg3qrFSyg9QCUUkd9o9BXE/8ACBeI/wDopOvf9+Lb/wCN0f8ACBeI/wDopOvf9+Lb/wCN0AdZPomlXWqQandaZZzX9sMQXclurSxD0VyMjr2NW1hiSV5UjRZJMb3CgFsdMnviuI/4QLxH/wBFJ17/AL8W3/xuj/hAvEf/AEUnXv8Avxbf/G6AOx/s6xGljTRZ2/2BYhCLXyl8oRgYCbMY244xjGKZZ6PpmnaadO0/TrS1siCDbQQKkZB6jaBjmuR/4QLxH/0UnXv+/Ft/8bo/4QLxH/0UnXv+/Ft/8boA7DTdL0/R7JbPSLG2sLVSSsFrCsSAnrhVAFWq4X/hAvEf/RSde/78W3/xuj/hAvEf/RSde/78W3/xugA+In/IxeA/+xgX/wBJ5q7qvGfGXh7XdA17whdy+KdS16Qax+5tbyOFV3i3lYcogPONv0Y16toOqLreg2eoqAv2iIMyjordGH4EEVPMubl6lcj5efoaFZ0Wn2T6/Lq0UpkuhB9kcBwVRQ27GOxzV+QuI28oKXwdoY4BPbJrH8K6RPpGkv8AbyrX11M9zcsvTex6A+gGKmWskreZcdIN38vU2qKK868U+LtY0vxLdWdncIkMezapiU4yik8kepqa1aNGPNI55zUFdnotFeR/8J94g/5+o/8Avyv+FH/CfeIP+fqP/vyv+Fcn9o0ezMfrMDP1ieW18WX89u5jljvZWRl6g7zXqnhnX4vEGliYYW4jws8fo3qPY145c3El3dS3E53STOZHIGMknJq7oOtT6Fqkd3Dkp92WPPDr3Fefh8T7Ko30ZzU6vJLyZ7dRUFlewahZRXdo++KVdyn+n1qevoE01dHpbhRRRTA8X+Ilx4i8M2PiOyvtds/EGma7a3Ih0qXEV9Zh0b5oQM+ZGg5OcYAzxznS8ETeIvE+p6ZKmuWejaToaJE2g2/7y6kwmwfac48vjkKAR0OScGtbxB8OrGx8L+Mp/Cmmefr/AIgtp0aWSUGR2kUrsV3ICJznGQPyFXtN8B6dfL4W13XNP+z+ItJtIg8kUgDb/K2tG5U4dQScdRkcHBOQDsqKK5C91zx1Df3EVl4L0+6tklZYZ213yzIgPysV8k7SRg4ycetAENx/yXqw/wCxauf/AEqgrta8vkHxCfx7b+Jf+EM04eTpkth9m/t0c75Y5N+7ye3l4xjv14rbPiD4h448B6dn/sYR/wDGKAO1rOvvD+k6lq9hql7YQy3+nMzWtwRh4twIIBHUYPQ8ZweoFaNcFqHjjWtY1e80PwDoUs11aSmC61TVI2gtLVx1wD88rdDhRjBBzg0Abvi3xjYeErGN7lXur+6byrHTrfma7k7Ko9PVugFVvBOj67ax3ur+LrvzNX1RlaS0ik3QWUa52RRj1AY7m7n6UeF/AttoV9JrGp3k2teIbhNk+qXQG4L/AHIlHESf7K/iTXU0AFeTapd+I7H49apP4Y0u01Vl0K1+0Ws9yYHdfNkx5bYK5z/ewPevWa4HTv8Ak4LW/wDsAWv/AKOloA0/DvxD0nXdUOjXUN1ouuKpY6XqUXlSsBnLIfuyLgE5UngZrq6iktbeW5iuJYInnhz5UrIC0eRg7T1GRxxUtAHA6F/yXfxb/wBguw/nLXfV5hcWnjK3+MniC+8MaZYSW9xp9mhn1R5oYnK+ZxGyIwYjPI7ZHrW19o+KP/QN8If+DC6/+M0AVfhZ/wAfXjr/ALGy7/8ARcNdvqP/ACC7r/ri/wD6Ca4j4TWOs2Vt4rbxHYizvLnxHcT7UV/KkUxxDfGXALISDhsc4Nd1dRNPZzRIQGkjZQT0yRigDyb4X6v4vn+Fvh+y8PeHLeGKOzVRqWq3gWJuvzLFHudh9Sldfo/gm8j16DXvE/iK91fU4AwhjiJtrSAMMELCp+b6uWzgelct8PvH3hrwj8PdI0LxXqS6NqmnwfZ7m1voniZXUnOCRhh3yCRgiuqtPip4K1C8t7XT9ehvJrmVYY1t4pJPmJAAJVSFHPU4AHJ4FAHXVxt78SbSx1q701/Dniid7V9jT2ujyzROfVWTORXZUUAcV/ws6z/6Fjxf/wCE/c//ABNOh+JVtcXtvbR+F/FoM8qx+Y+hzIkeTjczMAAozye1dnRQByHxN1O60rwek1ldXVq0uoWdvJLZRCWYRyTojhEKtuYqxAG05OODXCtZ6a+qy6i+sfEtrqW1W0kdvD2Q0KszBNv2PGMsx6d67f4oJcSeGLBLKZILltc00RSyR+Ysb/a4sMVyNwBwcZGfUVL/AGR49/6G/R//AAn3/wDkmgDmbbUrvV/hv4PvdQuJrm4k1+3DTXCBJGC3TqNygDBwBkYFb1v/AMl6v/8AsWrb/wBKp6qeBtEXWPhroUd9O3mWWovd74lCh5I7qQ9DnAJ7Z/Grdv8A8l6v/wDsWrb/ANKp6ANbT7HWtI1u6a41Nb7Q5UeZRdf8fFrJnOwMBh48E4z8y4xkjp534R1OG08F+GbE+JvE9hc/2FaXBs9J0hbxFjYFVcn7LKVyUbqw6cCug8YeJ7i11jXZLeeRbDw/okjXMaYInu58eTHjuwVM4/6ar603SPCHifR9asn0a80+ytrfw3Yaa0l5Ztc75IWlyAqzRlcB15Oc59qAM1fEUWj3mq+IdO1GfVEvfCcN3Z3NzGqyXUiTTbMqqoMk3EagBV6ivULEXQ062GoNG12Il89o12qXwNxAycDOeMmvEXs4NPbwOl6EudM8IeVp+tajbyH7MZXKbEBIG9Y54oXYnAXjPO4D2TTdat9U1LVbO3R92l3CW8rnG1maJJflPsJBmgDRooooAKKKKAOd8baXrGp6CB4e8Rf8I/d20ouPtTRLIjhQco4P8Jzz9O9eQx+NtZk8d3OpQRaJb6nNpUOmnXHuidL4mlPnK+3Lbj8oU8blI3cc+y+KvCGj+NNNgsPEED3FrDcJcCJZCgdlzgNjqvPIrnI/C93L8WL97rRoD4Vl8PRaegPleUzJKW8vys5A2u38IHH0oA6PwjpWp6P4ditdc1x9dvC7SvevGE3bjuwACflGcD29BxWZ44RW1vwSWUHHiAYyOn+h3J/oK1fC3hbTPBuhrpGhpJHZpK8iJJIXK7mJwCewzgew7nmsnx1IkWr+C3kZUUa+MsxwB/od1QBxgt/B7eIPHB8Q+GRqd7/areXcDw7LfbF+yQEDzUicL8xY4JBGc45ycK2g8HL8KPC72Phn7Prf/EmLah/wjk0WX8+33t9pMIU7vm+bfhs8E5576GHxBpWoeJP7Pi8O3ltrF811HJPrMkDxgwRRYKC3cZ/dZ+93rOj0nxLL4C0bwpcp4bjh08aekl7HrUjsy20sTkiM24GWEXTdxnrQB0VlEi/GrWHVQGbQLIk/9t7kf0H5VheJLqbwFq1gIdcsLOXxLqU7ahq+sx7kiVIGMSACSMKAEVB8w5OeSTnd0+aKf4yas0EiSKNAsgSjAjP2i69Ko/EvT9Ul1Hw3q+mLeLBpNxcTXdxYy2qSwI1u6bh9pIjxlsHOcDJ64oA5mO50eOy0Sz/4Wb4De20LYbGF42ZUKLtQsDf/ADFR0Jzg8jmr9n4lW7+KHhp4vFvhfxBPdC5sZE0mIrJFCYWnJ/4+ZBjfBGMlfx5p+n6j4i1bT4b/AEy58d3VpcLvimibw+yuPUGodFbV/EXjrQrqOfXr610W/uBfHUp9JKWz/ZposYtDv37nAweMEn3oA9H1+Oxn0K6g1a9NjaTIUknW58hkB9JMjb+dch/b3geTQF8OeHdHj8TWEYCLp2mWYurfhsjdI37kfNzlm689a7m7srXULfyL+2huYchvLmjDrkHIOD6GuL8W2UOgW82pXPjTX9NgkbbbadYC1O9z92KFGgZmJPQZP5UAUPD2jx+LLq4s9YtLPTtJ0O6WIeG7GL/R1l2q6mZ9oWUgOp2KNgOM7jg13F34e0q91qx1a4s0N/p4YW1wpKsisCCuRjK8/dORnnGa4jwj8O9atND+0al4w8QWOpajM15ew272rKsj44JaA5IUKpIwCV4AHFa/gOXUTqfii1vdXvNWtbDUltbWa8EfmcQRvIMxqoPzuR07fWgDn/ixf6prvhzxLomkJPZ6fpulz3OqX7xlRKRCXS2iJ+9u4LsOAvGctxqeMnEfwIuXbJC6XCTgZPRO1bXxH/5JZ4r/AOwLef8Aoh6xvGLrH8Cbh5GCqulwliewwlAEjaXqvxAlV/ElpLpXhpWDJpEpxPfEchrjB+RO/lA5P8X92u4RFjjVI1CIoAVVGAB6ClByMjkVieHfEQ8QXGsrHAEi03UXsVmD5ExRELEemGYr35U0AbdFFFAHCfCJ/tXhXUtRfPnX+t388xJzlvPZB+Soo/Cum1yXxBFHD/wjVnpt05J84ahdyQBRxjbsjfPfriub8Ef8U94o8Q+FLrKl7yTVtOZjxLbztucL7pKWB9mU966HxBF4huVgtvDk9lZLKT9ovbhTI8C9vLixtZjzyxAGOjdKAPPvF1z438USHwU2leHy12izXzW+qTsIbdXBKyMYBs83BQYBP3jjAJHVpcfEKONUj0PwsiKAFVdWuAAPQf6NXH6B4M0I/ELxdY6rf6lILdrORZH1i4geV3hJd28uRQxJA7cAADAGK6n/AIQPwd/z+aj/AOFHe/8Ax+gDc0SbxNLNKPEljpNrEFHlGwvZZ2Y98h4kwPpmsx7n4hrLII9J8MyR7zsZtUuEJXPGR9nODj3NR/Ca6uL34S+HLm8nkuJ5LNWeWVyzOcnkk8muwoA8l1y58cH4qeE2n0rw+t2LPUfIRNTnMbLiDfuYwAqR8uMA5yc4xz1v2v4i/wDQG8Mf+De4/wDkaq/iH/ksfgv/AK8dU/lb12tAFXTTftpsB1hLaO+K/vltXZ4g3+yWAJH1ArjrGT7J+0Bq1pCCEvvD1tdzc9XSeWMHH+6R+Vd2TgZPArhvBZOv+MvEXi9fmsZ/K0zTX7SQwFi8g9VaV3APcLnvQB3NFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHG/Fv/klur/9sf8A0clZ9aHxb/5Jbq//AGx/9HJWZM7xwSPHE0zqpKxqQC5x0BOBz716FD+F83+hy1fj+X+Y+isJdf1MqN/hHWA3cCazI/8AR9ZWneKtYu/EGrj/AIR7VZbS1aKBIEa0Bik2b33MZhkkOnQkD2Oa05kTY7KsaXwd4Znneabw5pMksjF3d7GIszE5JJ28mpbDVb68vPKuNAv7CLYW8+5ltyM/3cRyMf0qN9ZurPULqDUdMn8hUaa3uLRGnEiDGVZQMq/PA5B7HORRo9xampb28NrAsNrDHDEgwscahVX6AU50WSNkkVXRhgqwyCK43VPiFFBPZW+n6bqrXE06l4ptHuQxgBHmMo2gkqGHrjI45rYs/Fdpe3kdtHp+sxtI2A8+lXEaD6syAAfU0c0dh2ZbsfD+jaZcNPpuk2NpM33pLe2SNj9SBmtGmtKiMqu6qzHCgnGfpWX4n1OfRvDN7qFmsbTQJuQSqSpOQOQCD39aeiQtzQgs7a1kme2t4oXnfzJmjQKZGxjcxHU4AGT6VNWbcajc2mtQwT2gNhOhCXaP/q5ACSJAegIHBBPPB6itKgAorHsNYn1HxLqNpbxodPsFSJ5+ctcHlkHbCqVz7nHal0XV5b25v7G/RIr6xnKsiAgPExJikGexXg/7SsO1F0FjXqf4U/8AIM8Qf9h65/klQV5ND8BP+Fka5r+uf8JJ/ZuNVmg8j7D533Qpzu8xf73TFZ1v4bLp/GfTdFfNv/DI3/U7f+Un/wC3Uf8ADI3/AFO3/lJ/+3V5x1H0lRXzb/wyN/1O3/lJ/wDt1H/DI3/U7f8AlJ/+3UAfSVFfNv8AwyN/1O3/AJSf/t1H/DI3/U7f+Un/AO3UAfSVFfNv/DI3/U7f+Un/AO3Uf8Mjf9Tt/wCUn/7dQB9JUV82/wDDI3/U7f8AlJ/+3Uf8Mjf9Tt/5Sf8A7dQB9JUV82/8Mjf9Tt/5Sf8A7dR/wyN/1O3/AJSf/t1AH0lRXzb/AMMjf9Tt/wCUn/7dR/wyN/1O3/lJ/wDt1AH0lRXzb/wyN/1O3/lJ/wDt1H/DI3/U7f8AlJ/+3UAfSVFfNv8AwyN/1O3/AJSf/t1H/DI3/U7f+Un/AO3UAfSVZviLWF8PeF9T1mSEzrp9pLdNErbS4RC2M9s4r5//AOGRv+p2/wDKT/8AbqzfEf7LjaB4X1TV08Wm6awtJbkQDTNplKIW25804zjGcH6UAe4eCPiz4S8fIqaNqIiviMtYXWI5x9BnDfVSfepZb/8AtDUb1hH5fk3DQfeznbgZ/GvmjwF+zx4u8TPDe6tnw7Y5DLJcKftDe6x8EfVivqM19E6VoMHhu1bTbbUbvUvLcmS5vZhLK7kDduYAc5rjxd7K2x3YPlvK61LtFZep6pfWN0kdroF9qUTJuaW1lgUKc/dIkkQ+/Fc94o8W61ZeHp2svDWrWV3M8dvbzyvZuFlkdUX5RO2Tlh2I9eMmuNRbOxySO1orA/4SHVAnHg7WmYDjM1kM/wDkxV26vdUXREu7LSw95hXexnnVWA/iUMu5d3pzgnuOtKzHzIuR2VrDdz3UNtDHcXAUTTLGA8oUELubqcZOM9M02+0+y1O2NvqVpBdwN1iuIlkU/gRisefxjaW6wGTTNcJmiWUCPSZ5NgPZiqkBuOlY+ifEeLUILi4n0zV5LZ52NlNa6NdMssGBtbIUgknd0x9KrlluLmjsdbp+k6dpEBh0mwtbGInJS2hWNT+CgVLbWVrZ+d9jtoYPPlM0vlRhfMkPV2x1Y4HJ54qHTNSj1WyF1DBdQIWK7Lu2eB+P9lwDj8KtRyxzLuidXXOMqcipd+pSt0IruytdQtzBf20N1CWDGOaMOuQcg4PGQQDU9YUerajca5r2n2sVq7WMEDWokLJud1ckOwzxlR0HHPWtDSdROp6fHPLbyWk/IltpSN8TAkEHHUZBwe4waGmhJpl2isfxTrUmh6FJPZxLPfzMLexgbpLO/CKcdu59FBPam65rFxocNhd3CRGyMyxX8oB/chhhZB/sh9oJPQHPaizYOSRtVf8ADWoW91e6jZpGwuLIp5jsBgh1yMHr25qhVnw7Z21prF9eeeyzXgjVo2YBW2ggEd84q6Laqxt/WhnWSdKV/wCtf8jp6KiiureZ2SGeORl+8qOCRUtete55Nmtzhfgr/wAka8O/9e7f+jGruq4X4K/8ka8O/wDXu3/oxq7qgRjanqGp2niPR7eFLT+zrydoZXcs0xbyZpMKOAoBjXkls5IwMAnA8U+MdR0fXpLOzl0+OSOJXtdPuLeR59VY8lIHDBVI6fdfHVto5rU8SW/iOfV9Lm0PT9LubexmNwzXmoyQOzGKWIoFWBxjEgbdnsRjvWf4g8Na7fXWsRWQ0y4ttWVQt1eyOs2nYjVB5aqhDgMpkHzIQ7E5oA0/EniC60u90+106KKV5bmAXZkBIigkmSLIwR8xZ/lzx8relX/EGpy6Rok13bQie43JFBExwHkkdY0BI6Dcwz7Vg6/4JvtTuZbnT/E+p2jz3FpI8IS1MYWGRDkFoGfI2swBbbvJyMEitPVtJ1TVbG/tGu7aNMwS6fII23pLGwfMvOGG9V+6BxmgDLl8Sa3pKahY6olle6nCLM20trE8MUn2mYwpuRndhscEthj8uDxnFK/iTWdLt9SstTSyvNWtntFge1ieKKVbqXyY2ZCzMoVw+75jkLkY6BJfDWtatHqF/qklnZ6pP9kFtFbSvNDF9mmMyZdlRjvckN8owMDnGac/hrWNTttSvdTks7TVrp7RoI7aR5YYhay+bGrOVVmDOW3fKMBsAHGSAaWg6jqb6jf6Trz2kt7ZpFMJrOJoklik3BTsZmKkNHIPvEHAPsN2sPQdO1KPUb/VtdW0ivrxIoRBaStLHFFHvKjeyqWJaRz90Yzjtk7lAHC/ET/kYvAf/YwL/wCk81dLotzoytc6dorQobSVhNBGCNjZ54Pv3HFc18RP+Ri8B/8AYwL/AOk81dFoehf2Td6pcyPHLLfXjzhwmGVDjCE+3NZy5ueNl6mseXkld+hX0211u816TUtXl+yW0O+K2sYXyGGcb3PfOMgdq6CiinCCgrbkzm5u9rBXj/jn/kdL7/tn/wCi1r2CvH/HP/I6X3/bP/0WtcGY/wAJev6M48T8C9Tn6KKK8I88KKKKAOr8E+Jv7Ivfsd45+xTt1PSJvX6Hv+deq9a8EtreW7uY7e2QySyMFVR3Ne3aNZTado9ta3Nw1xJEgVnb+Q9h0r28vqTlFweyO7DSk1Zl2iiivUOsKKKKACiisQ+LdNi8RDRL7z7C8kbbbG6iKR3fGf3T/dY/7Od3tQBt0VyN38S/Dlh4zutAv9W0yy+x26yXE93fxw7ZGPyxBWI3HaNxOeMr68XIviF4Mnmjhg8W6HNLK6pHHHqMLM7E4AADZJJNAHRUVS1fU10fSZ7+S2urpIBueK0i8yQrnkhepwOcDnA4B6VkX/j3QbDT9LvUmuL6HVyRY/2fayXLTYUscLGCeACTxxg56UAdJRXGXHxR0S08r7Xp3iKDzpBFF5ug3a73PRRmPkn0HNaek+MrPWNRSzg03XLd3BIkvNHubeMYGeXdAo/PmgDoKoR6Hp0XiCfXI7fGo3FultJNvb5o1JZV252jBY84zV+igAooqK6uorKzmurlisMEbSSMFLEKoyTgcngdBzQBLRXPal4tgtLrw2tlGl9b6/c+TFcJLhVTyXlDjg7gQmMcdc5rRfXdNjl1KN7pQ2lxiW8GD+5UqWBPH90E8UAaFFYWp+KbfT7zw/FFCblNcufIhlVsBB5TShjnqMJ+tSa14ms/D99YQ6pHPFbX0nkrfbQYYpSQERznK7icAkbcjBIJGQDZoorH1TXZNO8RaLpaWizLqjzIZTLt8kxxFx8u07s4x1GOvNAGxRWT4d1xtd06SWeylsLy2na2urWU5MUi4yA3RlIKsGHUMOnIGtQAUUUUAZmv6DbeItPitLyWaJIrqC6VoGCtvikWReSDxlRn29KfrOmTatZCC31W+0pw4bz7ExhyP7v7xGXH4Z4rQooAydL8PW2jeF10OwuLqOFInQXBkBmBcks+7GN2WJ6Yz2qp4f8AB8GhardapNqmpavqFzClu11qEiMyxIWKooRFUDLMemST1roaKAOcPgbRmV1dJ3WXVf7WmDyk+dOPu7s9VXC4XoNi+laet6Omu6abGa7vLWF2BkNnN5TyKOqFhyFPfaQfetCigCjHomlw6H/Y0Wn266Z5Rh+yCMeWUPVdvTBzUPh/w3pPhbS/7O0G0Fpa7zIU3s5Zj1JZiSegHJ6ADoK1KKACiiigAooooAKKKKACsbxH4V0rxXHYRa5brdW9jdi7W3kRXjlYRugDqwIK4kJxxyBzWzRQBzf/AArjwR/0Jvh//wAFcH/xNH/CuPBH/Qm+H/8AwVwf/E10lFAGDo3grQvDuuXWp6DYQac13bR28tvaQpFCQjOwfaqj5j5hBJPRV9KqTfD3R77Vnv8AXJb7WiZjLFbajdNJbwHOQFh4TA7FgTwOa6migBFVUUKgCqowABgAVzuueBND16+GoSwzWWpgbRqOnTtbXGPQuhG4ezZHtXR0UAZ40pl8PjSxqV9vEHlfbjIpuM4x5m7bjd3+7j2xxWdo3gjRtFv/AO0VjnvtTI2nUNQna4nA7hWcnYPZcD2roaKAMnXdDn1lYPs2uanpDQliW094h5gOOGEiODjHHGad4d8P2nhnSRYWLzyhpXmlnuZN8s8rsWd3buST7CtSigCjrelQa9oGoaReNIlvqFrJaytEQHVXUqSpIIzg8ZBpf7Js30MaRcxLc2Rt/szxzAMJI9u0huxyKu0UAcenws8KRxiKO21FIR0hXWbwRj22ebtx7YxXSaTpGn6FpkOnaPaRWdnCCI4YV2quTk/iSSSe9XKKACiiigDJ1/w/DrkdvIJpLS/spPOsryL78D4weDwykcMp4I/AjVTcEXeQWxyQMAn6UtFAHMXHw68L3/iPUda1fSLTVbq/EQYX9tFMsQjXaNm5crkdeTkin/8ACuPBH/Qm+H//AAVwf/E10lFAGb4d0K08MeHbLRdNMhtbKIRRGVtzYHqcCtKiigDLvNAtb7xLpeuSyTC50yKeKFFYbGE2zduGMkjyxjBHfrWpRRQBma/o7a9p39nteS2trK2LoQcPNFg5jD5ygPGSOcZAxnIvW1tDZ2sVtaRJDBCgjjjQYVFAwAB6YqWigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA434t/8kt1f/tj/wCjkrPrQ+Lf/JLdX/7Y/wDo5Kz69Ch/C+b/AEOWr8fy/wAzzySe6fwfNibUJmXxHLBstrto5ZI/tjJ5avvXA28D5gOOtTxaRDAZDB4V8XRmVy8hTXwN7dNxxe8ngc+1QQ2P9reFb2ziXT52XxFdTSW1/LtjlRLx2Kn5W64/umpP7Atf+hI8Ef8AgWP/AJFoA3vAs81z4LspLmSd5S0oJuJDJIMSuAGYk5IAAzk9Klsm1+wgvYb6NNV8gBrOdGWKS5BzlHHCqwx94YU5HA5pPB9j/ZHhq10yWS1M0O8slrJuRA0jMAvAOAGA6CoJtfCa9qV1LdCDRtGtilyxA2yTthsZ9UUAYHUyY7Va0SuT1ZlwXWuT+JW1ldO0wieAWVkk+rBQuCWlAKRvuYsoBA/55j3q7o8+uw+IZ/Pktb+wuJmjmjtbkytp0wXcQS2DtIx8uMqWGBg1T0+zls9L8ERXkRimbUZJpIn6xs9rdOVPuC2PwrU0q9t9Pk16e7fy4v7WCbsE/M8cKr09WYCpQ2ZnjG3trnxr4fS80L+3Y/sl6fsvlwvg7rf5sSsq8fXPNZ+o6D4d1vw94isbTwbbaTqdrZMU82ztg4d0YoVaIsOq+oNb15NJJ48kntLZ7x9K0ph5MbKCzzyKQoLEANtg7kcEetV4NVm0VtS1XWbOWC81S4RLHS1kSSeTbGqhRtJXJYMTg4A5JHNDSu7juV7TTPCV9qGlWtn4T0WYX1j9ulcWUQ8mIhdhxs53McAccBj2xWx4gvNX40rw5Zus8kW5r51Aitk6fLnh5OOF6DgkgdcPwLap4Xh1Wx1dFh1CFRcttkLr9l2/IsZOPljO5Meoz/FXZR6jbPpKalJIILV4RMXmITYpGctnpxTjqhPc5HT9cuvDlvYaNB4O1RGm3iINdWrNMwBd2ZvN+8eWJPUmmX95qOo+JLL7Po91omuLbyyWst1LC8V1EhTfDJ5bsdpLqQeoPI7g6Wlzf294gPiOQGHS7SBrfT2l+Xzt5BkmweinaqrnqNx7inedFqHxNt/IlWZdP0qXzNjZCNNLHtzjoSImpdANrSL641DTknvNPm0+fJWS3mIYqQcHBHBX0Pcdq1PhT/yDPEH/AGHrn+SVBU/wp/5BniD/ALD1z/JKK38J/IKfxo7uiiivOOsKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK4pLOazv9RE6gGW8klXBzlWwRXa1xa3kt7qGomcgmK8khXAx8q4ArhxnL7t9z0MHze9bYwPFM0sOreF/JmkjEur+XIEcqHQ207bWA6jKqcH0rmpbAalrmsi+0bxJrC2+pZhktNY8mKLEcbKFQ3MeCpJOQvfrXQ+MHWPVPCjSMFUa0MljgD/RbisO48OK+tapd3Xh3wjrP2y6M0dxf3W2VU2KoUg279Nv97vWMdEbS1f8AXYW0E9n440GKLT/EWmxTtOJRqerm5jmAiJA2/aJeQeckD611evR60scN34fljeW3JMljMAEu1OMrv6owx8p6ZPIPUctpnh2O38VaZqUWieF9EiszKZX0y63SShoyoGPIj4BOeTXV+IdZXRtAmvolE8zAR2sSnPnzOdsaD6sR+GT2qZbqw47O5l+Lb3XJbW40jR9PjWe+gMVvdy3scfzEHdtU5Ysq5PTHFZ07a3J4ftrPT5NF0KCCSO2s7iPVXlIkU7FjK+WqtkjaUyc59RVqJZp/F+gadPc/brvRrJ59QuQAB5joI1BA6F8yMB6LVOBQPCsBAGT4qmJ46/8AEzkprRIT1bOu0a5vbvSopdVs/sd4MpNEGDLuUkFlP904yM84IzXlnhiDw9ZfDnStQ1f4cC5iSyiaa/NpYv5mQBv5l3nOe659q9J1jxBaWOja1cJLmTS4m81QDkP5YdVHqSGXGPWudk0zV4/Cek+FLXSZfIigs459SM8SxosZQyfLu3lsKw4XBJ69aI6DkrsrP4V8Jab491AX2gaOljJpEd0oksotkXlSSCVgNuBxJHk98D0rd8Nw6Zp3hddbsvDNvpMlzbieS20+1XzXXkoMKoJbBzt7Ekc9a5nxjcReJ763v7G2a70XQZT/AGjdRucXMZZfNhjA++qhQz9js2jJzjvotXs5tSisYH8x5bX7UjJyhjyADn3zx+NEr2Vwja7scireIZNfh13U/DF3essRFjZ29zAFsQ3DF98i7pWGMkZCj5QTkkzxeMLzXNBNyngjUrrTrqFs77i02yIQQcqZc469q0fE+uyJnQtBYTa7eIVjReRaIeDPJ/dVc5APLHAHsmqT6b4S8AXVtFcRxRaZpxijUuA3yx4Uf7x4+pPvRvbQNr6lDwhfalbWelwrbXN9oWoWyT2F4zAy2aMm8RT88gDgOM54B55PRJokPjvw9cTIJLd4pXSynZvkkxgFsDnBII9veofCMCtZ6f4aSOQNZabFHcSAfLEQgUKeevBrY07VJdDlhsbSyiu9BWX7NDc2LmV4XzyJB9SenT3qeWE5Xn8Oq+f/AAO/crmnTjaHxaP5f8Ht2LVhZ6J4O02C8v4bTTbiVFhlkj3FSxGcAnJxx+lVvDfi46l4lvtLknW+h3GS0u4YiqbcZMZ9xkc9/wAq6yWGKePZPGkif3XUEfka5XW9fsvCetadZW0NtbwXkrSXrLHjYpwA5wRjJOMnPSuqonR5WmlFf8N6HJTkq3NFpyk/P5+pw3wp+KPgnRfhbomnar4js7W7t4WWWGQnch3seePQiuv/AOFzfDz/AKGyw/76b/Cu0CROoZVRgeQQBzR5Uf8AzzX/AL5rtOE4v/hc3w8/6Gyw/wC+m/wo/wCFzfDz/obLD/vpv8K7N40VGYQhiBkKoGT7c1S0bUrPXNLjvrSIrG5IKSIAyEHBBHY8VPMr8vUrlfLzdDmf+FzfDz/obLD/AL6b/Cj/AIXN8PP+hssP++m/wrtPKj/55r/3zR5Uf/PNf++aok4v/hc3w8/6Gyw/76b/AAo/4XN8PP8AobLD/vpv8K7Tyo/+ea/981geNZbeHw41tJbmZr+VLRI42CMxc9iQccA9jUVJqEHJ9C6cHOaiuplf8Lm+Hn/Q2WH/AH03+FH/AAub4ef9DZYf99N/hWrf69pvhuWGxvLK7WBIV2XKWxeP025HfgfnV28vyNDTUNI086i0yK8MS4QsG6E56dRmp9rDVX1W5XsZ6O2j2Z5P8Q/iJoHiS/8AClv4N1i31PUo9YDJFbkllzBKgbkf3mFexaVay2Ok2ttczvcTRRKskrsWLtjk5PvVTQbbVI7V5dekt3uZH3rHBGAsAxjaD3+ta1EVzPn8tgk+Vez0eu4UUUVqZBXj/jn/AJHS+/7Z/wDota9grntU8FaXq+pS3101wJZcbtjgDgAenoK48ZRlWpqMe5jWg5xsjyCivVP+FcaJ/fuv+/g/wo/4Vxon9+6/7+D/AArzP7PreRyfV5nldFW9Utks9YvLWHPlwzvGu45OAxA/lXSeBfDP9p3Y1G9T/RIG+RSOJXH9B/nvXJTpSqVORbmUYOUuVHQeBPDP9nWo1O9T/Spl/dqw/wBWh/qf5fjXY0UV9LSpxpQUInqQioKyCiiitSjyzxf8SIJ9G8WeHpo9S8N61b2dydNmuMwC92ISrwSgjJJHTOee/IF/w58Q7U3eg+FNPiv9fvo7aKLVNQgBljs3EXJmlPBcsORnPJzzwcn4gaV4m1Pwt4uvvGNzZxaFp9rcPp2mWceTclUJilmkb5hg4+Vcc9eBzpeEtL8SaQnh2XwxcWdz4Tv7eOW4srlNstgGj35hdeXUnjDbiMjnHIAPSK8+8TeObmyj/wBOtLDw/b5kMVxr17FHNPsHzG3hWQbjyMEyJjI9a9Brzv4href8Jv4TbSxqf2oR3wU6ULXzwu2LOPtP7vbwM9+mKAObtdc8Ja9pUGhzavoPh/wtG4luLS41y3lu9QOd2JGSRgoLYZiXZn6HHOb8PiOwutUsYL6//wCEvs9GPnwTaDcxXZbGFSW6tkJkLrnhk3KSd21TgDQ/4q7/AKqB/wCW/TfC39qf8LZP9sf25v8A7EfZ/bP2Hdjz0+79k+XH+9z6UAddrHihNK0W21hNNvrzT5MPO8MJEltEVz5jRNhyBxkAbgMnHFc7rMdi/jb4eT6LHD9invL26R7ZAEcSWcreZxx8xbOe5b3rurq5is7Sa5uXEcMKNJI56KoGSfyFcNFqv/CR+MvA1xHbPaFtLudVktnI3QqyRRoG/wC/p9Pun0oA5O28U/8ACT22h6trXxH8G6dc2Fw90mn3FuN0cu14x5mbtSSquccLyc12fgfxZda/4m12wl13RtdtbG3tJYrrSItkYaUzBkP72TJHlqfvd+lYOn3ev+HPDOm2nhzxFomoWKaqukK82iThkYylGJb7SA+1sjgAHHBrp/CNjO3iXX9Xvdbs9Tu5PI0+eOzsHtVt2g8xsEPK5JInBzkDGMZzQBL4t1vUo7/T/Dnhl4o9Y1MO/wBolTetnbpjzJiv8RyyqoPBZhngGuL8YeANDbXPB+lXUM+s39/qvm3V1qU7TvLDDE7yZDHaqk7BtUBecY5rodSv7TQfjVBeazcR2lpqWh/ZbWedgkfnRzs7puPAYq6nHfYfSm+GLhPGnxBvfFts3m6NptudM0qUfduHLBriZfVcqiAjg7WoAZ4k8NnwTo8/iLwL5lm2mxm4udJWVvst5CnLr5ZyEfaDtZQOcA5Fdkur28nh0azBuktWtftaY6smzePxxWB8S9aTTfBd7YW6fadV1eF7DT7NOXnlkUqMD+6udzHoADzVwaV/YXwwGkB9/wDZ+j/Zd4/i2Q7c/pQB53aw67Nb+FLnw/4J1h9K0/UJNThWa9sgRBNFLtjjHnZAHmjAboBjtitjT7gHwL47tLjTr6y1OOK5nv2vnheSV5YCynMTMuAmxQM8BRWD4cg8HHwrpRuNI8dPL9ih3tAmseWW2DJXY23bnpt4x04rT8MWdtead8RLLw9aamizwrFBBqfnicu1pjB+0HfyTxk4x04oA09Z/wCPj4Yf9fy/+kMtdFrmtWMeqpoXiXSmOm6ntggupUWW2nkY48lx/AxOMbhhuxzxWB4ggkttQ+GkE67JYtQCOp7EWUwIrrvEGuR6Fb2bNA1zLe30FnDChwWZ3wT/AMBUM59lNAHnv9lR6r4k8UXN5pPiHW3h1k20a6ZrLWwt4xa27gbDcRLgs7nIyfWql34R0qbxX4XF3oviLSY7i+ntyl9r0sjv/oskgKtHcybOYyOCCc45FQ3VxEmsJNdT6qlhqHjG+S4GlvciaURWbxgAW/7wgPAOF/u5Peqt/rY0rwbrmvWUt9cx6B4thlsodYmnE2028EbJm5PmDiaQ4PbJ6UAemeDdP0C3S+uPDjag6rcyWczXl7czjfC5VtvnO3AbIyvXHtXTVj+FdH/4R3wxp+kyTCW4ii3TSf8APWVjulfHu7E/jWxQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHG/Fv/klur/8AbH/0clZ9aHxb/wCSW6v/ANsf/RyVn16FD+F83+hy1fj+X+Zhf8IR4XaaaWXw/ps8s8zzSy3Fskru7sWYlmBPUnjoOgpf+EI8Kf8AQsaN/wCC+L/4mtyitOVdiLszdP8ADmh6Tcm40rRtPspipQy21qkbFT2yoBxwKYfDWjn7ODYRlbed7mNCTsErtuLlc4Zs8gkHHbFatFOyC7IpraGeWCSaNXe3kMkTH+BirLkf8BZh+NZknhbSJdVbUZLeVp2mWdl+0y+U0igbXMW7YWG0YO3PArYoosguV7awtrOa5ltoVSS6k82dhkl22hcn8FA/CkGm2Y1M6j9mi+2mMRGfb8+zOdufTNWaKAMvWvDek+IViXWLJbjys7G3MjAHqMqQdp7joe4qze6XYajDFFf2cNzFC4kjSWMMqsOhAPHFW6KLILsintoLq2kt7qGOaCRSjxSIGV1PUEHgj2qHT9K07SIWh0qwtbGJjuZLaFY1J9SFAq3RQAVP8Kf+QZ4g/wCw9c/ySoKn+FP/ACDPEH/Yeuf5JWdb+Eyqfxo7uiiivOOsKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK5K4ntZ9RvDZqqhJ2STCbcuMbj789662uPksP7P1C+XzPM8+5af7uNu7Bx+FcWL5rRtsd2D5byvuZ+r6DpevwwQ61Yw30NvMJ44p13JvCsuSvRuGbg5HOeoFUf8AhBPCP/Qq6J/4Lov/AImt6iuPmaO3lT6GD/wgnhH/AKFXRP8AwXRf/E1onRtNK2KiygVNPbdaIqBVgO0r8oHA+UkVdoo5mHKl0KWl6PYaLbvDptuIVkcySNuLPI56szMSzH3JJqO70DTb3S306e2xbPMbgrFI0bCQyGQuGUhgd5LZBHNaNFF3uOy2MmDwxpFvYGzW1MkLXK3b+dM8rSTKVKuzsSzEFF6k/dHpWhd2kF/Zy2t5Es0EyFJI26Mp6g1NRSuwsiKC2gtbVLa2hjigjUIkSKAqqOwA4ArO0bwxo3h+a4l0exS1a5x5m1mIwMkKoJIVRk/KuBz0rWoouwsipY6XYaYZzp9nDbG4kMsxiQKZHPVmI6morjw/o15qSajd6TYz30eNl1LbI0q46YYjIxWhRRdhZFHwysulaneXmqarBp6S+ZdSabhWd4wMCRm5OOM4WrWqmPw4LnxFo17+71JAUsDFuW4nYfIy9CM9SO9UNY0C01yWB79pT5ClUVWAGCc+ma1bG1uLnWNITJltLBWJWRgcYTahx3IPenBtL2aXXR9bvd/8DYJxi37Rvpqullsv+DuWZta8RrIlra+HTNMEXfcyXCxxbtoLEDk4zkVtXOmWV75hu7SGRpovJkLKCWQ/w564zVuivUjTtfmd/Wx5Eql7cqt6XMi5E3h3QoItE0yS+S3wnkLNhgncgtnJHpU2j61HrNtJLHa3dq0TbHiuoTGwOM9K0aKag1LR6dhOacdVr3Of0/xZHq2oxwafpmoSW7Eh7t4dkacZ78nniqmnbvDvjG501otthqzm6tXRSQsuB5iH0zjI7V1dFR7KTs3LVPt+Bp7WKuox0a7/AIhRXPteeI7HWjHPYw6hp082I57dtj26k/xqeoHqP/rVa1rxBHorRI1jfXkkwJRLSAyZx2Pp1qvaxs29LdyfYyulHW/Y1qyIDpHiZ7e/hP2n+z7hxE+WChxwSOzex5pJLc+J/DZhvobvTPtH34g4WRQG6EjsQOR6GtGysrfTrOK0solhgiXaiL0Ao1m1p7oaQT194nooorUxCiiigAooooAKKKKACiiigDyRNDm1/wAdahbR5SJbuVppMfcXef1PavVrW1hsrWO2tkCRRKFVR2FQafpkGm/aDAPnuZ3mkcjlixJx9BnFXK5cPh1STb3ZlTpqGvVhRRRXUahRRRQBBeWVrqNnLaahbQ3VtMu2SGeMOjj0Kngin21tBZ2sVrZwxwW8KCOKKJAqRqBgKoHAAAwAKkooAK8+8Q6JrnjO+tJf7CGizWQlS31K41eZJoVk279sdq4352Lw0g6dOTXoNFAHLw+AdNS2jWbUNeklVAHkHiHUFDNjk48/jntmsLSvDmv+ENYkvk0z/hJXaIwJef2zcfaFiLBtnlXMjp1A5V1zjoK9FooA5vxrpOpeIvDSaPYrHHFqE0cOos0mGjtSczBcdWKgp2+8T2qgvhbW5b7xHqUd9b6dqV8qWOmzRp5q2dnH0IX5fnJZ2x0B2jkCuzooA4G/0G+tj4e8MaDoMqaRpd7bXJ1KS6i2bIzuYFd3mNIW6nbgk5zXRf8ACOGDxp/b+n3RtxcweTqFtsyt1t/1T9fldeRnnKnB6AjcooAqalpOna1Zm01iwtb+2LBjDdQrKhI6HawIzT5bNTpr2Vo7WSGIxRvbKqmEYwCgIKgjtwR7VYooA5/Q/BWk6FfPqKfaL/VJF2PqOoTGecr/AHQx4Vf9lQB7VqazbyXWhX9vbrvlmtpERcgZYqQBk+9XKKAMLw/HqGk/D7SoriwZ9RtNMhSSyjlTcZViAaMMTtzkEZzj3xzVHwha6q2teINY1fS5NK/tKaEw2000ckgWOIISxjZlGSOME11dFAHCalb+IPEXjjQTN4el06w0XUZbl76a7hdbhfKkjTYiMX+beD8wXA9+Kua/pWt3vi1NVtrWCe30fT5ZNMgeUDz76QFctx8oVBgH/pqfSuvooA5zw94eHhnwbY2jW41O/sI3m3AKHluX3NIylsBSzO/ORw2CcVStvC134jkkv/HkcMhkieK20qFt8NkjqVcluPMlKkgvgAAkKOST2FFAHE+FfCevaX4hiuvEGpW1/baXYPp+mSoGE0kTujFps/LvAijXK5zgk4ziu2oooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDjfi3/yS3V/+2P8A6OSs+tD4t/8AJLdX/wC2P/o5Kz69Ch/C+b/Q5avx/L/MKKKK2MwooooAKKKKACiiigAooooAKKKKACp/hT/yDPEH/Yeuf5JUFT/Cn/kGeIP+w9c/ySsq38Jl0/jR3dFFFecdYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVxEJnN/qf2nzM/bZdnmZ+5kYxnt6V29cfJf/wBoahfN5fl+TcNB97O7bgZ/GuHF293U78Hf3tAooorjO4KKKKACiiigAooooAKKKKACiiigApbG8mg8TafbxkCO5EokBHXauR+opKsaXPax65bxTqDPKjiAlMkEDJ57cU4/FHW2q/P9diZfBLS+j/L9NzqKKKK9k8QKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMDxzoN14m8GX2kWDwx3Fx5expiQg2yKxyQCeintXJ/8ACMfED/nr4a/76uP8K9LoraFaUI8qM5U1J3Z5p/wjHxA/56+Gv++rj/Cj/hGPiB/z18Nf99XH+Fel0Vf1mfkT7GJ5p/wjHxA/56+Gv++rj/Cj/hGPiB/z18Nf99XH+Fel0UfWZ+Qexieaf8Ix8QP+evhr/vq4/wAKP+EY+IH/AD18Nf8AfVx/hXpdFH1mfkHsYnmn/CMfED/nr4a/76uP8KP+EY+IH/PXw1/31cf4V6XRR9Zn5B7GJ5p/wjHxA/56+Gv++rj/AAo/4Rj4gf8APXw1/wB9XH+Fel0UfWZ+Qexieaf8Ix8QP+evhr/vq4/wo/4Rj4gf89fDX/fVx/hXpdFH1mfkHsYnmn/CMfED/nr4a/76uP8ACui8A+HdS8N6TfxazJayXN5qEl2TaMxQB1UY+YA9VP6c11NFTOvKceVlRpxi7oKKKKwNAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArnr3w7PH58ujyQiW4nMrrcbtuT97kc9a6GisqlKNRWka06s6TvE5yw0LUSr/wBpzWqtkbPs4YjHvnFV4tC137UvnSacIN/zFN+7b7DGM11dFY/VKdktdPM3+uVLt6a+RzV/oWqB0/syazZcfP8AaAwOfbGafHoV/wD2cTLPbi92nCqreXnPHPXGMdq6Kin9Vp3b1F9bqWS0+45ix0LVzOf7Slsli28G33ls/jjjrTLrQtcF0/2GXTzBxsM28N05zjjrmuqopfVKfLbX7x/XKnNey+45680G/Fsv2Ce3afI3CdWC4xzjGT1pLDQtQMb/ANpzWyvn5fs4YjHvnFdFRVfVafNcn61U5eX9DlIdC137UvnyacIN3zFN5bb7AjGamv8AQtVEif2ZNZsmPm+0Bgc+2M10tFT9Up2tr95X1ypzX0+455NBv/7OzJPb/bdp4VW8vPbnrj8KhsdC1czn+0pbJYtvBtw5bd+OOOtdPRT+q07p66eYvrdSzWmvkcrdaFrguX+xS6eYONhm3hunfHHWrsfh6SPWNPvhcK32YvvTbjIZCOD9cVu0ULC007/P7tQeLqtW02tt3VgooorqOQKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOT8beKbTRRBaf8Jdo/hy9k/e51OHzvMj5HC+YmOe+T0rF8O+Nre71qG1ufiV4Z1Y3GYobSzsvKkeQ8Lg+e+ee2OfWun8Y6r/Y+hi5/wCEg0/w/wDvlT7XqMHmxnIPy7d6cnHXPbpWN4K8Tf21rUtv/wAJ3oPiLbbs/wBl02y8mRPmUbyfOf5RnGMdWHPqAW/7I8e/9Dfo/wD4T7//ACTUvgHWtT1vRr9tblgmurHVbuwMtvCYlkEMpQNtLNjOM4yayfD/AIl8eeJPDthrNjoXh2O2v4EniWbVpw4VhkAgW5GfoTU/w8sdb03wvrf9o2Mdvqc+sahcpCXbymLysykMQCUJPDYBI5x2oAm0/VpZPi/rFjLfMbRdLs2t4DL8nmM8+4qOm4hB74WqPiDUvGd/FdeGYLDRtP1HUrC4NpeR61cIY8YXepFr95S6NtDZ9+9c5ofgiOTxlcaBqE4eXT9G0iWWXYHWWRJpzKCDwVcb1I9HNZlvaaRe3ephfDXhq2jtdSurSOOL4d3d8NkUzxqTNEwRiQoJwBg8UAd9pviHxdc6hdaRBouhyXGmrElzMdauGUMy5xn7IMttwxGcjcuetdjdXlrYxCS9uYbeMttDyyBAT6ZPfg14tHYaLDrujW03hjw1dQ398lrKsnw/udP2qVY5EszFM/L0wSfwr1u88M6FqGkwaVfaNYXGnWxUw2clsjQx7QQuEI2jAJHSgCvc+OPCdkcXnifRrc5xiXUIl59OWrjfDvxa8PSeIPEses+MNL+xw36x6cHniUGLykJKsPvjezDJz0rW1OOy0rXbfQfCHhHR59Ra3N27TKtrBbxhggJZY2YsTkABf4SSR3rfDN7g+IPGyX9jHp92NWjaS1jkEix5tYcEMAMg4yDgHnkA8UAdBoHj3wt4pv5LLw9rlpqFzHGZXigfJCAgFvplgPxrX1K5uLTTLi4srNr64iQtHbI6o0pH8ILcAn34q1Ve/v7TS9PnvtRuI7a1t0Mks0rbVRR1JNAHHar4u8V6bo1xqmoeHtL0ayt0LyTahqzSMo6ACOKJtzE4AAbk8CtnwTqPiDVvC1vfeLdOt9Nv5yXW3hZvljPKbwfuvg8rk49ug4ez1jV/H2tQ6/YeHZr/AEizcvpEF7ILSBnxgXEjMrM7HnYFQqo5J3HC9Zp/jO8j8RW2h+K9EbRry+VjZTRXIuba5KjLIJNqkOBztZRkA4zQB1lVtQguLrTp4bG8ayuHQiO5WNXMbdjtbg/Q1ZrzbxV4sutW+Fmoavpvn6f5esw2lvPBOQ00aX8cJcEYIDgMMc8H3oA6Xw/f+J49UfSfFGnQyhIjJDrFgdsE4BA2vGxLRycg4BZTzg8Yqz4U8SJ4r0d9TtrWSC1NzLFbO7Ai4jRyolXHRWwSM/ywayfG+pXGoyw+DdBnZNT1VD9pnjPNhZ9JJjjoxHyJ6sc/wmr2mana6T4kj8HR2AsbeDT0l0x1fKzxp8joBjgplOOchgfWgCLxbcarp+2/h8W6N4e01VVHbU7HzAZCTz5hnjAyMADHbrzgcMfiBfDxKmmj4peCzbNaNcG9+yJsDhwoj/4+8ZIJPXt0r0DxlpGo6vp1j/Y62r3VnqMF4I7qZokcRtuK7lRyCf8AdNcvf3viqx+I2l3tzpWgi6vrKWxt7RNXuHL4ZZWcsLT5QAAMkYyw55AIBj6V8QL7UHv1ufil4Lsxa3bW8RktE/foFUiQZuxwdxHGenWvR/DS6q9j9p1XXLDWYblUltZ7GyMCbCM5z5r7gQQQQR+Nc3pemeN9Ni1pP7H8Py/2peS3Wf7anHlb0Vdv/HpzjbnPHWun8J6VPoPgvRNIvGje40/T4LWVoiSjMkaqSpIBxkcZAoAdf+J9F021uZ7rVLNBao7yKbhNw2gkjGevFcx8NPHdp4h8PaVa6n4gsdQ8RXNr9qnt7Z0LRAnO1gnClQVBBwc54rM+InhXw1f6hp+g2Ph7SU1nxFeFri8SyiEyW6nzLiUvtzuI+XOckyV22s3Vr4Q8H6pqdlYReVptlLdfZogIg/loW25AOM464PWgDZori7PwdBLLaeIPDV/eaBc3jpeXkEMpmt7kPhnV4n+Xccn51CnJzz0rtKAOXtfEt9P8Vb/w00NuLC10uK8WUBvNMjyMuOuNuFPYGuorh9FLS/G7xU+0bYNK0+POfVp2/wAfyruKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5Xxvd6jDN4cstL1OfTDqWri1nnt44nfy/s88mB5iOo+aNecdqoW8us6P8UdL0a48R3+q2N7pt1cSR3sNspV43iCkGKJD0duDmug8R+FdK8Vx2EWuW63VvY3Yu1t5EV45WEboA6sCCuJCcccgc1W0/wABeGdH8QQ6zoujWemXcUD2/wDoUCQq6uVJ3BQNx+UYJ6c+tAFT4VHPwj8L4/6BkH/oArYt9fhufFt9oMUTmSxtIbmWYY2DzWkAT/exHn6GsYfC/wAKx5FtaX1pGSSIbPVru3jXJycJHKFX6ACtrQfDWj+GbaWDQ7FLVZn8yVgzO8rYxlnYlmOPUmgDlE1C20n4t+LNQvpBFbWmgWc0rk/dVXuCT+QrFj0g6leLb6TZ3ujahq2jy62YDrt+scN3JIpKMkUyLgtI2SoGD27V3F/4I0fVdX1C/wBSSW5/tG3t7ee3d8RMsMjSJwMHlm5BJBAxjrl2u+Eo9a1S31O31bUtIvoIWtxPp7xgvGzBirCRHU8qDnGR60AcnLbaRpnhez8UXmma3Je6esd/Npl9rt3PJaKDtklEbyMr7AXI4+YDjGa9IhmjubeOeB1kikUOjqchlIyCD9KwtH8H2umXtze3l/faze3MAtnudRdGYQgk7AqKqgEnnC5PGc4rZsrK203T7exsIVgtbaNYoYkGFRFGAB7ACgDD8T+HbC9lTWptWu9CurGB0bUbSZIysJwzK/mKyFcgHkcEZBFc78JNNQL4g8Q263X2PWr4PaSXjM01xDGgUTNu/vtvYDA+UrjAwB2Wt+HNJ8SRQRa5ZJew28olSGVm8ssOhZM4fHowIrSVQqhVAAAwAB0oAWsTxD4T0vxTNYf22klxb2MxnW0L/uZnxhTIn8e3qAeM+tbdFAHBN4/1KHT7vXF0CFvDFjcTW808d5m6jWGRo5JfJ2bdgKMcB920Zx2pvjC9t/EHi7wnoekOl1eW2pR6tcPEdwtbdEf5mI6bywUDvk9hWxqfw68Matc3M91YSxtdktcra3s9sk5IwS6RuquSOpIOe9amheG9G8M2RtNA023sIWO51hTBc+rHqx9zmgB3iCLUJvDt/FotxDa38kDLBcT52RMRjecc8dfwryDxz4g0uL4Xr4T8CpJqVvp8tjbzarGA1raslzDgu+cSOz7cqmT8xJIr2XU9Lsda06Ww1a0hvLSYASQTIGVsHIyD7iornQdJu9CfRbjTrVtLePyjZ+UBFt7AKOB+HSgCh4e8O2nhPTrm5urt7y+n/f6jqlzgSTso6nHCqo4CjhR+JPPafDrHjnwX4L8T/wCi2mtW8sF+3DLG0TqVmQdSN0bkj3C1fPwp8IMoSawup4Qc/Z59TupYeuceW0hXHtjFdfFFHDCkUKLHGihURBgKB0AHYUAYGueDtG1i6k1DUV1NpljwVtNUuoQQB2SKRVz+GTXlEGjaToT3niL4g6B4l021lYLZzjWppBZwHGI2K3Hnb2IDMMEZwB93n2HWtBk1maFk1vVNNSMEPFYSoglz/eJQsMf7JHX6VU07wH4f0+/TUGtJL/UI/uXmpXEl3Kh9VaQts/4DigDz/wAEeH/Dvi7WNWvBqGqRWkbLDaaQ2v3i3EKrndNMvnb1Lk/Kp4CgHGScemaF4Z03w55/9l/bP9I27/tV/Pc/dzjHmu237x6YzxnoKj8QeEdE8TIn9r2KvPFzBdxMYp4D6pKuGX8D9a0rC0+wadb2n2ie58iNY/OuH3ySYGNzN3J6k0Ac7p3h+XTvFmu+LNfuY55pIxBZiMHFpZoNxXH95myzdei4rnda8R+J/Efw31HVLPw9pcOiX+lSyIb7VWS4MDxEiQosLIPlOdpf8RXphGRg8iuTPwx8Is/OlsYN277H9rm+y9c4+z7/ACsZ7bcUAUvBHjNZtF0HS9b0zUNKv7iyhEDXMIMV0REGOyRCVBwCdrbW68cGu5pFUKoVQAAMAAdKWgDhNAnEPxw8YW1w6LLcadp01unQvGnnKx98M2OPUV0HibxhovhKzWbWrxY5JCFgtYxvnuGJwFjjHzMSeOKj8SeB/Dvi2S3l1/TVuJ7X/UzpK8MsfsHjZWx7ZxTNA8A+FvDFw1zomi28F0wwbp8yzEenmOS360AXfDV9qupaDDea9pq6ZdzMzi0Em9ooyx2Bz/f24yB3zWrRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)

図1　前回の進捗の概要

* 進捗報告

　春休み中にこれまでの実験プログラムを見返す機会があり，修正したほうが良い箇所を見つけたため，今回は実験プログラムの見直しと修正を行った．（分かりやすいものを抜粋して報告）

＊＊＊＊＊＊＊＊＊＊＊ 進捗内容 ＊＊＊＊＊＊＊＊＊＊＊

1. 各ブロックに用いるICA基底の優先度の修正

＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊＊

* 1. 各ブロックに用いるICA基底の優先度の修正

提案手法では，ブロックごとにDCTまたは，ICAを用いた時の「基底の数」と「画質」を比較することで，選出基底やその適用ブロックを決定している．ICAの「基底の数」はDCTの基底の数に合わせておおよそ決定している．画質を求めるためには，どのICAを用いるのかも必要となるが，DCTの基底の数が定まるたびにブロックの保存に最適なICA基底の組み合わせを求めていたら処理コストが大きくなってしまうため，あらかじめ各ブロックで優先的に用いるICA基底の順序付け（以降，優先度）を行っている．

～ ☆　ブロックのICA基底の優先度の求め方 ～

1. 64個のICA基底の内，1個でブロックを再構成した時に画質が最も高く（MSEが最小に）なるものを優先度1（最も必要）
2. 優先度1を除いた63個のICA基底の内，優先度1と一緒にブロックを再構成した時に画質が最も高く（MSEが最小に）なるものを優先度2（2番目に必要）
3. 優先度1，2を除いた62個のICA基底の内，優先度1，2と一緒にブロックを再構成した時に画質が最も高く（MSEが最小に）なるものを優先度3．
4. 以降，優先度64まで求める．

先行手法では，MP法[1]に基づきブロックと各基底との類似度により，各ブロックの優先度を決定していたが，ICA基底同士の組み合わせが考慮されていないと考えたため，提案手法では上記のような処理により決定している．

例として，表1にAirplaneの0番目ブロックの優先度を示す．

表1　ブロックNo.0のICA基底の優先度

|  |  |  |
| --- | --- | --- |
| 優先度 | 画像 | 基底番号 |
| 原画像  （ブロックNo.0） |  | ― |
| 1（必要） |  | 46 |
| 2 |  | 48 |
| 3 |  | 0 |
| 4 |  | 62 |
| 63 |  | 29 |
| 64（不要） |  | 3 |

**…**

手法自体に問題はないが，実験プログラムでは☆の手順とは逆の方向から求めていた．（作成当時，逆から求めても普通に求めても結果は変わらないと思っていた．）実験プログラムを見直した際，「逆からやっても本当に同じになるの？」と指摘を受けたため，確認を行った．図2にICA基底を必要（正）順，不要（逆）順に求めた際のMSEを示す．（必要順＝☆，　不要順＝実験プログラム）図2の縦軸は画質（MSE[[1]](#footnote-2)）であり，図2.1の横軸は左から優先度が高い順，図2.2は左から優先度が低い順である．（例1，図2.1の「横軸10」は優先度1~10の基底をすべて併用した時の画質．例2，図2.2の「横軸10」は優先度1~54の基底をすべて併用した時の画質．）

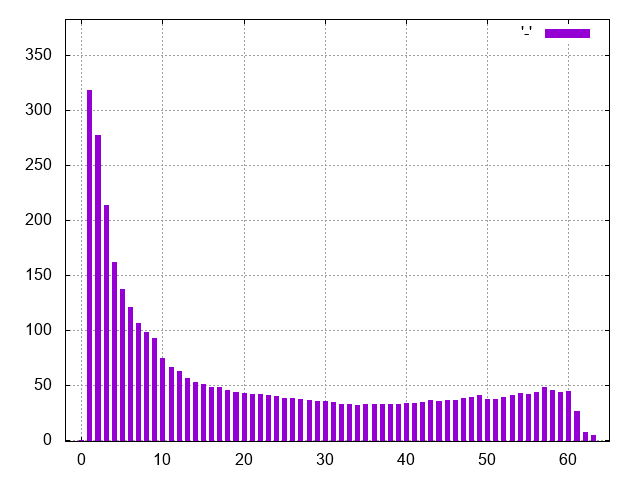
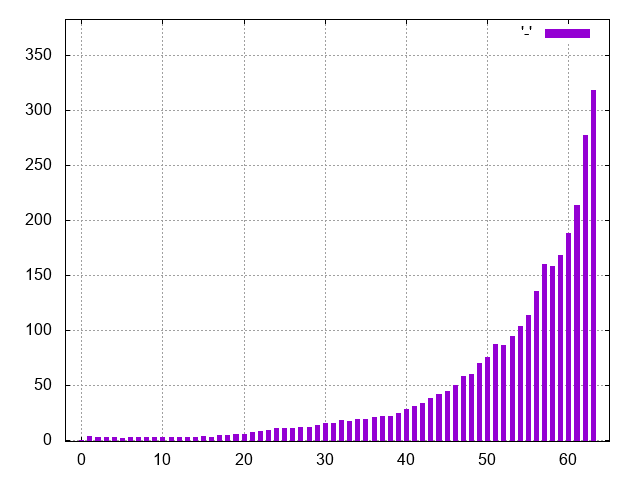


表2

不要順

表2

必要順

図2.1　必要（正）順　　　　　　　　　　　　　　　　図2.2　不要（逆）順

図2　MSEグラフの比較（ブロックNo.0）

☆を逆からやっても同じになるのであれば，図2.1と図2.2は線対称になるはずだが，図2を見るとなっていないことが分かる．どっちが正しいのかについては，

1. 提案手法に則している？
2. 全探索結果に近い？

の2点から明らかにする．

①は明らかに必要順のほうが正しい．表2に必要順と不要順それぞれの上位優先度の基底を用いた時の画質を示す．（例，優先度3だと優先度1~3の基底すべてを用いた時の画質．）また，表3に全探索した時の最適基底と最適画質を示す．

表2　必要順と不要順の優先度による画質比較

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 優先度 | 必要順（☆） | | 不要順 | |
| 0番ブロック | 基底番号 | 画質  （MSE） | 基底番号 | 画質  （MSE） |
| 1（必要） | 46 | 317 | 46 | 317 |
| 2 | 31 | 276 | 48 | 278 |
| 3 | 48 | 229 | 0 | 213 |
| 4 | 0 | 163 | 31 | 163 |
| 5 | 32 | 138 | 4 | 144 |

表3　全探索結果

|  |  |
| --- | --- |
| 基底 | 画質  （MSE） |
| 46 | 317 |
| 31，46 | 276 |
| 0，46，48 | 213 |
| 0，31，46，48 | 163 |
| 0，31，32，46，48 | 138 |

表2と表3を比較すると若干ではあるが必要順のほうが全探索結果に近いことが分かる．別紙表1と表2では1番ブロックを比較しており，同様に必要順のほうが全探索結果に近いことが分かる．（別紙のほうが分かりやすい．）

以上の結果から必要（正）順と不要（逆）順は同じ結果にならず，提案手法通りの順序で求めるべきであることが分かったため，実験プログラムを修正した．

* 今回の進捗のまとめ

　ブロックごとのICA基底の優先度を求める実験プログラムの修正を行った．これまで手法とは逆順で求めていたが，そもそも正順 逆順であった．加えて，全探索との比較により正順の正当性（組み合わせを考慮）を示した．（過去資料の正当性に不安があったため，ついでに示した．）

　正順だと基底数が増えても画質が下がらない傾向にあるが，手法的にそこまでの個数は想定していないため，問題ないと思われる．また，プログラム的に間違っているのではとも考えたが，別紙図3（本手法の適用領域だと思われる）ではほぼ線対称になっているため，問題ないと思われる．

* 今後の予定
* 修正後の符号化性能を確認（優先度：高）
* DCT領域にICA基底を加えてみる（優先度：中）
* 領域分類してそれごとに基底を作ってみたい（優先度：中）

1. MSE：平均二乗誤差．原画像との差の2乗．0に近いほど画質が高い．

   ここで，nはデータ（画素）数， は原画像， は再構成画像であり，今回の実験ではブロックごとの画質を調査しているため，である． [↑](#footnote-ref-2)