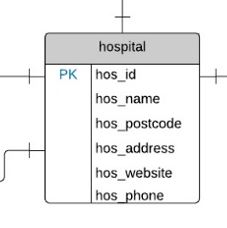
**Blood Donation System**

A screenshot of a cell phone

Description automatically generated

This ER diagram which demonstrates the database entity relationship of a Blood Donation System was partially normalised to begin with. Most of the attributes within the entity had an atomic relationship with the rest of the attributes. The 1NF and 2NF were both satisfied.



<<hospital>>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hos\_ID | Hos\_name | Hos\_postcode | Hos\_address | Hos\_website | Hos\_phone |

We identified a transitive dependency in the hospital entity and deiced to normalized it by creating an additional entity called hospital Postal code ;

<<hospital>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hos\_ID | Hos\_name | Hos\_postcode | Hos\_website | Hos\_phone |

<<hos\_PostCode>>

|  |  |
| --- | --- |
| Hos\_postCode | Hos\_address |

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MQAAkpIAAgAAAAM0MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAxOToxMjowNCAwMDo1NTowMgAyMDE5OjEyOjA0IDAwOjU1OjAyAAAAdQBzAGUAcgAAAP/hCxdodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDE5LTEyLTA0VDAwOjU1OjAyLjQwOTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT51c2VyPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAXIA8AMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APpHNGa5z/hEm/6GPXv/AALH/wATR/wiTf8AQx69/wCBY/8AiaAOjzRmuc/4RJv+hj17/wACx/8AE0f8Ik3/AEMevf8AgWP/AImgDo80ZrnP+ESb/oY9e/8AAsf/ABNH/CJN/wBDHr3/AIFj/wCJoA6PNGa5z/hEm/6GPXv/AALH/wATR/wiTf8AQx69/wCBY/8AiaAOjzRmuc/4RJv+hj17/wACx/8AE0f8Ik3/AEMevf8AgWP/AImgDo80ZrnP+ESb/oY9e/8AAsf/ABNH/CJN/wBDHr3/AIFj/wCJoA6PNQXbf6HP/wBc2/lWH/wiTf8AQx69/wCBY/8Aiapat4c1S10m7l0XxFqTXscLmJL2VZYZDtJCuCvAPTIII7UAavgv/kQ9A/7Btt/6KWtusLwSwfwFoBHQ6bb/APopa3aACiiigAooooAKKKKACiiigAooooAKKKKACiiigAxRiiigAxRiiigAxRiiigAxRiiigAxRiiigAxRiiigA4HWoboD7HMf+mbfyp7oWxg4rCvvClhLFczyT6oHdXchNXulXJyeFEgAHsBigA8CEf8K98Pc/8w23/wDRa10Gc9K4nwp4S06bwXorGbVFD6fA21NXu0UZjU8ASAAc9B0rsoovKGASRgAZJJ/M0ASUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAGkBPevP8AxBLdat4xu7F768t7HT7eH9xbTmLzpH3NuYrhsAAADOOue1Vf7Gg/5+9S/wDBhN/8VQB6XRXmn9jQ/wDP3qP/AIMJv/i6P7Gh/wCfvUf/AAYTf/F0Ael0V5p/Y0P/AD96j/4MJv8A4uj+xof+fvUf/BhN/wDF0Ael0V5p/Y0H/P3qP/gwm/8Ai6P7Gh/5+9S/8GE//wAVQB6XUN3/AMeU/wD1zb+Vedf2NB/z96j/AODCb/4ug6JAwKm61EgjBH9oTc/+PUAdj4P/AORI0Ljj+zrf/wBFLW1XmUWhWsEKRQ3GoRxxqERF1CYBVAwAPm6ACnf2ND/z96l/4MJv/iqAPS6K80/saD/n71H/AMGE3/xdH9jQ/wDP3qP/AIMJv/i6APS6K80/saH/AJ+9R/8ABhN/8XR/Y0P/AD96j/4MJv8A4ugD0uivNP7Gh/5+9R/8GE3/AMXR/Y0P/P3qP/gwm/8Ai6APS6TNea/2ND/z96j/AODCb/4un6a13o3ivSUt9RvZbK/lktpbae4aUB/KeRXXdkj/AFZBGcHdnHFAHpFFFFABRRRQAUUUUAFFFFABQelFB6UAee3X/I/6/wD9c7X/ANAarFV7r/kf9f8A+udr/wCgNVigAooooAKKKKACuGtfF17Y3mtvd2kt1YWuuG0e4MqgwI/lqoRerAFxnp1713Nc9ceEorjTNUszduo1LUFvmZUHyMHjbaB3H7v9aAK7eNdkj3B0uUaQl/8AYGvzMo/eb/L3eX12b+M5z7Ull40N9eX0KWCBbOSeORDdr5yeXn5nixlVYjgjd1HrU0vg2OW8cNqNwdNkvft7aeY0KmbeH+9jdt3DO3PXv2qC+8HzXV6L261Sa9e1WZrRHhRZAXRl2tKBl1G7AB9BnNAFaLxzLdaTBc3uj3Fhb6lp8tzayi5QsxRN7LgD5Tt5U8+pA6Utl4u1H7bq/nWEbWWn2NvNGWulDs0iZ+dmAGDnkkgDb3zUeheCppPDemRavf3TPb6Y1tFbyon+jNJHtc5AyxA4GTwPWrOoeALe/huoDfyxwXVrbwyRiJWy8BHlvz24wVPBFAGfceOX1SxeKyeK3u7PVbCGY2l2txG8U0oHDgAHIDAjHau+6Vx48AKdQmvZ9XuJp7mW1luMwoqM1vJvTaoA2jGVx6H1rsKACiiigAooooAKqS/8jP4Z/wCwm3/pLPVuqkv/ACM/hn/sJt/6Sz0Aei0UUUAFFFFABRRRQAUUUUAFB6VQGoJLrlxpqK4lt7eK4ZjjaRI0igD3HlNn6iryg7Bnk4oA8/ugT4/1/A/5Z2v/AKA1WNp9D+VSQeHdH1rx3r8msaTY3zxpaqrXNukhUeW3ALA45rVPgTwkP+ZY0f8A8AYv/iaAMbafQ/lRtPofypl1p/gO01K5s38K2TPa7fOePSFdEyoYZIX0Oasx6D4EmuFii0DRm32ou1cWMYUxE43Zx/kU+Vke0jfch2n0P5UbT6H8qu6Z4W8F6taC6tfDOltExOxn06Nd49Rleh9au/8ACCeEv+hY0f8A8AYv/iaRSaexi7T6H8qNp9D+VUNN0HwfpfhG41PVPDumyxR6hcxlvsMbt/x+PGgGR0GVGOwHtXTL4H8Itn/imdGOMg4sYuMfhQMyNp9D+VG0+hrX/wCEJ8HFcjw3opGM5+xRf/E0o8D+EGGV8M6MRjPFjF/8TQBj7T6GjafQ/lV+Twh4TjvILf8A4RPTJPO3HzF0+IomBn5jjjPaq82geB4detNHbwzpRuryKWWLbp8RXbGVDZOOvzCgCDafQ/lRtPofyrZHgTwmRz4Y0f8A8AYv/iaX/hBPCX/QsaP/AOAMX/xNAGLtPofyo2n0P5Vtf8IJ4S/6FjR//AGL/wCJo/4QTwl/0LGj/wDgDF/8TQBi7T6H8qNp9D+VbX/CCeEv+hY0f/wBi/8AiaP+EE8Jf9Cxo/8A4Axf/E0AYu0+h/KqcoI8T+Gcj/mJt/6Sz103/CCeEv8AoWNH/wDAGL/4msnVPDOh6P4g8M3Ok6Np9jO2qMnm21skbbTazkjIGccdKAO1ooqjqWox2EtjHIrs15ci3jKY4YozZPthD+lAF6imxjC/jTqACijNFAGD/aHib/oBWf8A4MP/ALCj+0PE3/QCs/8AwYf/AGFbuBRgUAcPBqWvx+OtTc6DC8h02zDKl+AFAlucHJXnOTx7e9bP9reI/wDoWU/8GKf/ABNXBpxi8SXepeYCtxaQW4jxypjeVs57583/AMdrSTBQfSgDlfC093ceLfEkmoWYs5ibUeUJRJx5Z53ACuqauf0b/kePEn0tf/RZroSM9aAOOj0zU7rxTrzW2oNY28ksQYC3DM/7lRlWJ49OhrO1fwo8+rQadYSvFDbaUqpvUMkxWXISQ9we4GM16DsFJ5S+/wCdae0aZzvDxaszO0HUP7RsPMe2ktZ4z5c0DjBjYdQPUeh7itSmqgXpTqzN0rKx5trVq998H9TtY0lYzapOuIs7sf2k2SMcjAyc1l+JfD8thqmuWWjWV0mlSDTLm8trJXJnQTuJwoXksUALY5IHOc13vg5Q2gSZ/wCghff+lctb2wZJ5596Bni13p9heWeu/wBkw3mm+F5J7F7Z006R4TMhYyMbdsFoThFbAxnJ7ZrtfhxM0ugXvmafb2cSX0nlSWiPHBdLgHzY43+ZAemOmQSOK7QoD3I+lZ2paDbapIjz3OoQlF2j7LfzQA/UIwBPuaAOP+IdnqV1rmlnRVkF5/Z2pLBKqk7JGhATkdCT0rn/AAfDpX/CyPDr+H9KvbSK30a4jvmltZYkW4JjLK28DMmQcnnPqa9U0zR4NKjdIJ72YOwYm7vJZyPoXYkfQVd2D3/OgBwORxRQBgcUUAFFFFABRRRQAVy3jOe4hvPDb2Vr9qnXVvlhMgj3f6LcfxHOPX8K6mue8TKP7Y8Me+rnP/gJcUAL/a3iT/oWE/8ABin/AMTWL4g1LX5L3QfM8PxwldTUpuv1IY+TLxwvH1rusCszV9NN/NpsglEf2O8FwQRnfiN1x7ffz+FAFNb/AMS440Kz5/6iH/2FL9v8S/8AQCs//Bh/9hW3HyvIp2BQBz9v4gvYNVt7LW9J+xfa2MdvPFcCWNnClth4BU4BI45xXQA5rB8UKA2i/wDYVh5/Bq3lGBQAtFFFABjPWiiigDndG/5HjxL9LX/0Wa6Kud0b/kePEv0tf/RZroqACiiigAooooA5HR9Vt9E8HT398zLbx6leK5Rdxy19Io4+rCurU/NXm+uwG6+Dup2yGQNLqk67ouGGdSbkH1HWszxLpkukajr1npIvoNLkGmXV6ls8rt5ZuJFuCmCWBKAFtvOBmgD13Ix1FLketeKXUeny2Ouw6Jfzaf4YE9ibW4eOaS1acFvMjPIPknCBiCACevWu1+Gt2L3Qr3ZarbpFfyIskFxJNb3GAP3kJf5ghz06Ag4z1oA7bI9aTIxnIxXD+LtNGq+OvC1rOZzZMt2biNJGVJR5a4VyOo749q4a6uIrOy0fRNRt91hFqGpRw3OoSXDwxpHKwSMpGcyNg/LuPGOOcUAe45HqKXI9a8K8IWreLJPDdj4iF7MbPSb2G9t52lQrKkyhBIDgkhSMZJqfSbLVLPw14b1LSPtk2u32hXsczSyuzTusQMW4HoQQMfWgD23I9RS15B8NIAfFFq1lqkReLTSNQto7a6DSOSoDTPKxUShgeOGIz2r15RgUALRRRQAVz/ib/kL+Fv8AsLn/ANJLiugrn/E3/IX8Lf8AYXP/AKSXFAHQUYzRRQAAY6cUUUUAYPin72i/9hWH+TVuqc9KyvEmlzarpIjspVhvIJo7i2kcEqJEYEBsfwkZU+xNU4Na1qOMLc+FrnzRwxt7qF0PuCzA4+oFAHRUUUUAFFFFAHO6N/yPHiX6Wv8A6LNdFXO6N/yPHiX6Wv8A6LNdFQAUVhar408OaJqDWWr63ZWdyqhzDNKFYA9Dj04NW7LXNO1JtthfwXB8lLj924P7t87X+hwefagDSoqppupWmq2i3enXUd1buSEliOVbBwcHvzVugDn/AAeN2gyZ/wCghff+lc1bwTHc1y+gajbaT4Ulu7+ZYbdNSvFdyCcFr2VR09SQPxrqFJzzQAgjAOc1Q1DRjfyIy6lf2YRcbbWUIG+uQa0qKAKGnaUdPjkVr+8u95zuupAxX2GAOKu7MdDx6U6igBvljGMmjZ706ohMhnMXmKZFAYoDyAehx6cGgCQKF6UtFFABRVG11S1vry8t7OcSSWUohuE2keW5UMByPRgePWr1ABXP+Jv+Qv4W/wCwuf8A0kuK6Cuf8Tf8hfwt/wBhc/8ApJcUAdBRRRQAUUUUABGaTaKWigAooooAKKKKAOd0b/kePEv0tf8A0Wa6Kud0b/kePEv0tf8A0Wa6KgDz3br7fEzxL/YH9llfIsvM+3h852vjG3tjPWuX8S6Z4j1Px1rUNi0EyxaRp8mqafblka+QPLuhifqgI3deT8o7mvZfIUTNIAoZsbiF5OOmTQLeNZmlVFEjgKzhfmIHQZ9OaAMzwvqml6v4etLvQSgsDGFijVNhixwUK/wlcYI7VsVFBbR2+7ylVAx3MFUDJ7k471LQB5nr6NJ8GtUijlMLvqkyrIACUJ1NsEZ9KoeJLnUPD99rlhZazfw2LHTZ57iW4MklpFLO8c7ozZKghQfQckYrufCcKT+HZElVWX+0b75SARkXkuK3fs0ZZ2ZFLONrEqMsPQ+3J4oA8hur2QJrulaD4nI0u3msvs93eagxR5GLeZa/aRllDBV5ySC2O+K7H4e6p/auk3wBu/Mtb+SB1ubsXSKQAcRTADenPfJByD0wOnGmWYtTai1g+zH/AJYeUuzrn7vSqdzo1yFij0fUP7KgRceTBbRlSfXkcfhQBy3jm9EPjTwpZXWq3Gmafem6W58qcxCXEYKqzD7vPcY+vNczp2qTX9xpFpr/AIiubfw68uorb34vTC16IplEG+YYJGwsRgjdtzzXoP8AwiD3OsWOo6vqcmoPZCZUjkgRVZZFCkEAc9M1uPp9tJbLbywQvAuMRNGCox046cUAeN/2xqd1oelXk+uGaOCO+220+qGxmvYVmKxXKyjh2CADDcfMD3pJ9ReO41jX9IvNRTUbjwvZXFv9rmPneWWdZJPL4VmVRu4XGTn+Ln2O50yzvFRbu2gnWM5QSxK20+2enQU82UJmSUxoZIwVRtoyoPUA9h7UAeVanf2VjYSQeH/GeoXOnyX1kNRuGuTL9igkyCyTkHBchcjcdoOeMiqk+rvHdXGl2uvXn/CLx63bWz6mb0s0cbQEvEJyc7fMVFLZJG/Ga9eh060t4Xiht4Y45CS6JGArZ65HegadaraG1FvCLbbt8kRjZj029MUAeGLq80Emqx6FqrXGn3nilbefUHvTEDGLUbUadQSFLALv6nHXnNek/DaW6m0e7NxqdtqMC3si2rQXbXXlIAMxmVgC+1s8+nGTXVDTrYW7wC3hELjDxiMbWGMcjoeKkt7WK1jWO3RIokGFjjUKq/QCgCauf8Tf8hfwt/2Fz/6SXFdBXP8Aib/kL+Fv+wuf/SS4oA6CiiigAooooAKKKKACiiigAooooA53Rv8AkePEv0tf/RZroq53Rv8AkePEv0tf/RZroqACiiigAooooA5nwzeQWHhmSa7mjghGpXoaSVwoBN5KByfUkAfWukVsnmvNdfWR/gzqqW7qkzapMEZl3BW/tNsEjuM1Dr2t6/4fv9X02HXZZUeTTmjvruKImyS4neKVuFCkDaMZHGaAPUqK8ru9S8R29xrfh7Rtde/nspLJ4ri4khjndZN3mW6ybdnmkJlSV6N+I6nwPq8uraderPc30tzZ3r280V/FGk1uwAPlkx/I4wQQw6g+tAHV0VwfjzxJf+F9StrmKYi1vbK4tootuf8ATPlMOOOp+YY71yN5468SWWh3caXxnvfD9obTUZhGo3XT3QhjlYH5cCNWkwePnGeKAPYLy+gsIjNe3EVtDuVRJM4VdzEADJ7kkACrOflz7V4f4nufESeEtbttUvpUtI3sJYJr66t55raQ3Ayx8oAbCMMNw7HtW7e6j4jtL7W/D+j+IG1GeBLK4gubqSCOU+a7eZAr7NgdlXKblOM/QgA9Lnvre2mginnjjkuGKRI7AGRgCSFHc4BP4VOj71yCD7ivKIvEF/e3umacdR1GOf8Ate4s7tbuCBbm1xal1QOgKNg4YOOucHNY+iatrsOieFNA0u91OWKbQzqDzx3NtHKxDKojDyLjanJIwSQwycA0Ae40VheEbrU73wnp1xrbQtfPF++eCRXR+SAwK/LyADxxk1u0AFc/4m/5C/hb/sLn/wBJLiugrn/E3/IX8Lf9hc/+klxQB0FFFFABRRRQAUUUUAFFFFABRRRQBzujf8jx4l+lr/6LNdFXO6N/yPHiX6Wv/os10VABRRRQAUUUUAcz4asrfUPDEsF5DHNC2o3pMcihlJF5KQcH0IB/CtifR7C6e4a6sredrmMRTmSIN5iAkhWz1AycD3rL8JSrF4fcuQq/2jffMTgD/S5a6ANk0AYy+ENAXSW0saLYf2e7h2tvs67CwOQxGOuec9RTF0G40q3jtfCp07S7Rcs0X2Mtlj1bhl/HOc1vUUAYyaLNewxr4jFjqLQTpcW5FttETr0YAlvmHY9qspomnxveullbBr9g12fKH+kEDb8/97jjntWhTGlVWVSRuboM8mgDGt/B3h+0sZrO00XT4bed0kmiS2ULIynKlhjkjAxnpRF4N8PwaXLpsOiacljM4kkt1t1COwxgkY5IwMHtW2pyM0tAGTZ+GNH06GCKw0yzt0tpGmgEcIXy3YYLDHQkcE9ahm8G+HbjTxYzaHpz2gkaUQG2XYHY/M2MdT39a3KKAIrW1hs7WK2tYo4YIkCRxxqFVFHQADgCpaKKACuf8Tf8hfwt/wBhc/8ApJcV0Fc/4m/5C/hb/sLn/wBJLigDoKKKKACiiigAooooAKKKKACiiigDndG/5HjxL9LX/wBFmuirndGP/Fb+JD2ItP8A0Wa6LNABRRRQAUUUUAeZ6/5v/CmdU+zhDN/ak3l+Znbu/tNsZx2zTtV8U+JdDv8AU9LNzZ3t00tgLO5a1KJALmZ4zvUN8wUrxyM55NdBoOmWureE5rS+iEsD6leMyEkZK3srDoc9QD+Fad/4Z0nVXu21KwiuftsMcE4kJIdEYsgx2wzEgjnNAHGXniHxfYHWNFtZY9W1LT/skwuYbVVka3lLB8RF9rSLsJAyAQemevSeDddl1zTLmSW+W7mt7p4ZFNo1rLCQAdkkbEkMM9RwQQRSp4C8PpYS2YsDsmmW4eX7RJ57Sr91zNu35HY7uBxT4NFutAhMHhezszFK7TTvfXUrSSSHqxbDFicDkmgCj4p1nWLbxZ4f0bRrq3tl1T7SJZZ4vMKbEDAqMjJ9jXLW+p67r/irQE+021tqFs2r2Mt4LcsjeU8aeYkZPU4XgnA+b0ro9S8Jal4k8QaRfeIIrFYNO8/5La4k35kQBWVtqlWBB5BH1rdsPC+laWLAWNmkP9nxyR2xUn5BIQX78liASTkk59aAOL0jxN4p8QT6ZpEF5aafdtb3Ut3e/ZvMEjQXHk7Y0LYAPU8k4PGOKj0bxd4n8UX1jY2F5Z2DzaZPLcTG2MmJorgxZRS33Tg9SfxrrrnwPoV5DDDNYYWCSWSKSOZ45EMrbpMOpDYY9RnB9OKuWXhvS9NuIJrCxht3t7b7JF5QKqkO7dsCjjrzQB5yvxA8TawunWumJLFdNpCXtzJZacLndMzsoUBnAWPKH1POMivSvDl7faj4dsbvV7Q2V9LCrXFuf+Wb4+YfTNZV38P/AA5e2lvazaaFitoTBEYZpI3ETHLRl1YMUOeVJIrobO1hsrOK2to1ihiUJHGgwqKBgAD0AoAnooooAK5/xN/yF/C3/YXP/pJcV0Ga57xMf+Jt4Y9tXOf/AAFuKAOhooooAKKKKACiiigAooooAKKKKAMDUdCvV1c6voV7HbXbxrFPDcRb4bhVJK7sEMrDccMD0OCDxQP+Et/6gv8A5GrfpNooAwc+Lf8AqC/+RqM+Lf8AqC/+Rq38CjAoAwM+Lf8AqC/+RqM+Lf8AqC/+Rq38CjAoA5PStN8U6VZG2jfRpAZ5pixEo5kleQj8C+Pwq7nxb/1Bf/I1b+BRgUAYGfFv/UF/8jUZ8W/9QX/yNW/gUYFAGBnxb/1Bf/I1GfFv/UF/8jVv4FGBQBgZ8W/9QX/yNRnxb/1Bf/I1b+BRgUAcnfal4rsr7TrZo9Gc387QKwMvyERPJn34jI/GrufFp6f2L/5Fo8QD/if+GP8AsIy/+klxW8AKAMHPi3/qC/8AkajPi3/qC/8Akat/AowKAMD/AIq300X/AMjUlnomoT6xDqmv3kM0tsHFra2sRSKEsMFyWJZn25GeAASAOST0GBRgUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVQv49SkgP8AZc9vbzbvvXMLSpt7/KrKc++av0HoaAOD1yHxQNf8NJJqWjszX0vlldOlABFrNnP7/kYz6c4+ldNp8GuRyN/al5Yzx7fkW1tXiYN6ktI+RVHXznxN4V9r+b/0kmroxQALnaM9aWiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKMj1oAytd1l9JitktbU3t7eTeTb2wkCb22liSx+6oCkk4P0Oaqpd+KmXJ03SR7fbZDj/wAh0zWv+R18NfW6/wDRVdCCAKAMP7T4q/6B2k/+Bsn/AMbo+0+Kv+gdpP8A4Gyf/G63aKAML7T4q/6B2k/+Bsn/AMbo+0+Kv+gdpP8A4Gyf/G63aKAML7T4q/6B2k/+Bsn/AMbo+0+Kv+gdpP8A4Gyf/G63aKAML7T4q/6B2k/+Bsn/AMbpDc+Ksf8AIO0n/wADZP8A43W9RQBzlhpGo3euRapr81sGtUdbS0tdxSIvgNIXbBZtvA4AAY+tdHSAAdABS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVSv5LyC1MthaJdzhhiFphGCPXdg9Ku0UAcHq2oeIH8W+HzJ4fhR1NyVT+0Ad37vB52cda6TTrnV7i5KajpEdlFsJEi3glycjjAUds8+1V9Y/5HLw79Lr/0WK6AUAA6DNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUHpxRRQBzOteLX0zVk0yx06bULvyRNIFkWOOFSSBuZj1JBwACaqDxlq+OfDgP/cQT/Cs66/5KBr3tFa/+gNVigC1/wAJlq//AELY/wDBgn+FH/CZav8A9C2P/Bgn+FVaKAIb3XtXu9Y06/GgBDZeb8n21Dv3rt644x+NXx4x1cDnw2P/AAYJ/hWLd6zb2Ws2emz7hJdxSzCTICKsYUtknp96rklzBFCJZZ4kiOAJGcBTnpz0oAv/APCZav8A9C2P/Bgn+FH/AAmWr/8AQtj/AMGCf4VRknhhKCaaOIv90O4Xd9M9akoAtf8ACZav/wBC2P8AwYJ/hR/wmWr/APQtj/wYJ/hXK3PjKxt9Sv7JbLUrl9PZFuntrUyJHuQOMkHJ+U54Fa9vqVldWNteQXURt7sKYJGcKJNwyMZxz7UAaf8AwmWr/wDQtj/wYJ/hR/wmWr/9C2P/AAYJ/hVF7iGOVY5Zo0kf7qM4Bb6A9azbjxRoltDfyzajCF09xHcYOSjkDCgDkk7gBjPPHWgDoP8AhMtX/wChbH/gwT/Cj/hMtX/6Fsf+DBP8K5vTPFFnqd+tibW/sbl0aSGO+tWhMyjGSpPB6jjr7VrxTRTM4hljkKNtfY4O0+hx0PtQBd/4TLV/+hbH/gwT/Cj/AITLV/8AoWx/4ME/wrFTWrWXXk0qE+ZK9q10JEYMm0PsIyD1yauxTRXEe+CWOVMkbo3DDI6jIoAu/wDCZav/ANC2P/Bgn+FH/CZav/0LY/8ABgn+FVelFAFr/hMtX/6Fsf8AgwT/AAqbTPGUl5rkOlajpc2nz3Ku0D+akscm0ZYbhyCBzgjn8DWfVST/AJGjwye/9psB/wCAs+aAPRaKKKACiiigAooooAKKKKACg9KKD0oA89uv+R/1/wD652v/AKA1WKr3X/I/6/8A9c7X/wBAarFABRRRQByuvaOmqePvDrXdkLmzhhujIZI90asQgXdnj1xmuX0rSWsTpNxr2k3N5pVvHfwJa/ZjMIHNyTGTHzwUBAPYfWvUunSigDyW40W6stD06W4srz+0otOlhit7ix+2QSI0rMsDY+ZHA2ru449cV6lpwlOl2nnW/wBmkMKb4AdwjbaMrnvjp+FWKx7jwrpN1cyTzRXBkkYsxF5MoJPsHwPwoA5yy8P6rd+NvFs0erX2lWk9xbgCGBCJwLdVJDsCRg5HFQ6j4fsdH1Vo7rRbjU9MXSEtLBEgM/lyKz7l/wBlmyp3HH1Fd7bwJbW0cEO4RxKEUMxYgD3OSfqakoA8pvtKvrCG0kms7i81ZdNtbeS3ubDz4LoryVSRTmJh0JJA4B561YvNEu0utalstJdrq11u31QRJEALyEKuVV+jENuOM/eUdM16cCR0OPpR/nrQByd7rN54l0u9sdD0rUIHmsp1+13kRt/IlKEIozyzEnqOBjOa5iXR57yxaLw1ot1pksWhTWt3uh8gyzEIVjzxubIf5+2evNepk5680Z6f40AeUXmlSahc6kPCuh3Wnq3h8W4DWxg8yQSqSgzj5toIzxmui8FaeItbvbyFb2OI20cDRyactnCzAk5C5yzAcE4xgjk12tGT3NAAOgooooAKqS/8jP4Z/wCwm3/pLPVuqkv/ACM/hn/sJt/6Sz0Aei0UUUAFFFFABRRRQAUUUUAFB6cUUUAefXGmaxfePtebSnsAqx2ocXQfOdjdNvb61ZPh7xV/z10X8pq1tG/5HjxL9LX/ANFmuhPWgDhv7A8U95tF/Kb/ABpf7A8U/wDPbRfym/xqG7dJfFGvRyxatPMjxCD7HJIAmYVOOGCjnnmqt9q+t6PdW4mWSW6GkIbhwN6QHzMNKwH3iB6dfpWip3OV4hK7aNAeH/FJPE2in8Jv8ad/wj3ir/npov5Tf410uh28NvpsSwXMl2rr5n2iR9xlzzuz7+g4HatKszpTurnnWlWPibVbFrlDo8YFxNDtbzjzHK0ZP4lM/jV3+wPFP/PXRPym/wAazNdaaL4P6m9sA0y6pOUUvsy39pNgbu3pmptT8Y6/ol7qOmXVtp93fiWySxkiV44j9pkaMeYCxI2lDyDzx0oGXf7A8Un/AJa6J+U3+NH9geKf+euiflN/jVC+8WeJ9MXVtNe1tdR1TTjaymaztpCv2aYkNJ5O7LMu1vlDcjBro/CGtt4g0ya6a6s7oR3DxCS1jkjxtxw6PyjjoVyaAMoaB4pPSbRPym/xpf8AhH/FP/PXRPym/wAaueJdb1ay8TaFpGjJaBtVFwHmuQzCHy0DBgFI3emMj68Vh2PjTxBrWoWmh6fFp9pqge8S9upo3khX7PKsZ8tcqTuLqeTwM9cUAX/7B8Uf89tE/wDI3+NH9geKM487RM/9tv8AGsib4hawNLsbx7a2srbddQ3999lluoIbiGQpsIQhlQ4Lbznjim3PjHWtO1PWNWkuLK90+30Szngs7YMY2mmZ1DLJ12lhydudu3pgkgG1/YHinGfN0TH0m/xpP7A8U/8APXRPym/xqPUtb8W6DbRQahb6Rc3l7ewWdjcwmRIwZM7jIhyRt2nBDfNkdKpz+M9fttQfw3INPk1v+0obJLsROsHlywtKJCm7O7CONobGcc80AaP9geKR/wAtdF/Kb/GgeH/FJ6S6L+U3+Nclb+LdU8P6nrsMyQSalf8AiJbRWjikmjjUWqs0ixr8x4UfJnq3J4JrvvBGtalrVhdnWLR4J7W5aFJjavAtymAVkVH+ZeuCOeRwaAM//hHvFX/PTRfym/xqlNpWt2Pifw1Lqr6c0J1JlH2YSbt32Wf+9xjrXolc/wCJv+Qv4W/7C5/9JLigDoKKKKACiiigAooooAKKKKACiiigDndG/wCR48S/S1/9FmuhNc9o3/I8eJfpa/8Aos10WKAKUGm28F5dXUYYSXbK8pLZBKqFH04AoOmWx1P7eVYz+T5Gd3GzO7p9e9XcUYo1I5EUdL0q20iBoLIMkJcusZYlUyckKOwz2q9RRQUlY5PRNItdc8Gz2F+GaCTU7xmCNtJK30jDn6qK0dS8I6Rq817JqELytewRQS4kZcLE7OhXGNrBmJyOelR+DuNAkz/0Eb7/ANK5q380DOZj8BaTHaTxrNqBubiZJpL43shuGdOEPmZzgAkY6cnim22kTeGBJF4f006gbqZp7u5u77EskpAGSSDngAdsACuozScUAcLqnh7U/FHinQr3VLJbCHTvtGXt70mRWdAFZSAOQc/ga1X8AaKdNsbSD7ZbNYtI0N1Bduk+ZDmQs+ctvPJz3rpeO1LQBzD+ANIWztraxm1DT47eJ4R9jvHjMiOdzb+fmJOTuPOSeacPh/4fTCR2rx2/9nDTXtklYRSQLnarKOpGThuvJrpcijI9aAOVi+HWhLZ3cNx9su3ujEWuLi7d5k8o5i2yZ3LtPIx35Oaf/wAK/wBEOmS2ji7eWa5W7e9a6c3JmUYV/MzkEDgDpjjFdPkUZoA5OH4beH4LGaCNbzzJrsXxujduZ1uNu3zBJnIJHXscnitvRdDttCsvs1rLdTAu0jyXU7TO7McklmOfw6CtGigArn/E3/IX8Lf9hc/+klxXQVz/AIm/5C/hb/sLn/0kuKAOgooooAKKKKACiiigAooooAKKKDQBzujf8jx4l+lr/wCizXRVzujf8jx4k+lp/wCi2roqACiiigAooooA841a7u9P+EupXVg0y3Eep3BTyH2O2dRYYB9wSPxqzfeOtQ0i41Cy1LRIm1GKW0SzhtrstHc/aHZEy7INmCpzwRxxV7TNFh8Q+B7nTbqSSOKXU7tmaPG75L6Rx191FXdX8E6frV5fXN3PcpJdw28W6FwphMEjSRuhxkMGbvkcdKAOf1Dx9qejWepw6po9sNS057cyC2uXkgEMxI88kR7wilSD8p6enNdJ4Y1pvEGmNeMLNk8xljlsrsXEcijHzBgAR6FSAR71Th8DCFbqdde1T+1buSJ5NS3RiQiPO1NuzZs+Y5XbzknrTNO0tvBy3EVhY6jrEuoXL3d1cqYUzIwAPy5QDgD7o+uTQBL4u8RS6BDZ/Zv7PVrqUx77+78lEwpPAALOT0wo75NY2l/ES78QQ6JHoWkRSX2pQ3E80d1dFI4EglET4YISxLnA4HXJx0rRvvDzeK76w1KX+1PD9/pjSLbyo0LMyyLhxghxjHfgg1WtPhbaaXbwJo+u6tYyWsk5t5kkjZ4o5iGkiyyHKlhuG7JDc5oAw/BvjHW7rSdN021sBf6lOt5e3DX14U8mJLkoEDBW3NkhR2G30o8EeM9XmsNA0ya0+0tc2Ut9e315dNut41nZSDwSzYxgZxx1AroLb4Y2WnWFhBpOs6pYTWSTwi6ikQySRSvvZGLKQfmwQcZBHWrnh/4f6Z4cktGtJ7mZbWxewRZ2Dbo2kMhJOMk5OPpQBzmgfFf+2dUsI0sLd7bUhILZLe4aSeMqpZfNUoFAcDjDHaSAc1q+C/G9x4smEclrYW+ITJNBFelri1bIHlywsisp5PIyMir2keBk0aWKO213Vm062heG205pVEUSsMdQodtv8OWOPyp+leClsPEEOsX2sX2q3dvataQPdCMFY2IJ3FEUuflHLZ70AdMv3RS0DiigArn/ABN/yF/C3/YXP/pJcV0Fc94mP/E38L/9hY/+klxQB0NFFFABRRRQAUUUUAFFFFABQehx1oooA5q6tNU03xDPq+jwRXsV3FHHd2ryeW+5MhXjY8ZwcFTgHAOR3n/trW/+hXuf/AuD/wCKreooAwf7a1v/AKFe6/8AAuD/AOKo/trW/wDoV7r/AMC4P/iq3qKAMH+2tb/6Fe6/8C4P/iqP7a1v/oV7r/wLg/8Aiq3qKAOO0G517S9Na2m8NTu5urmbK3cGAJJ3kA+91wwH51p/21rf/Qr3X/gXB/8AFVvUUAYP9ta3/wBCvdf+BcH/AMVSf2xrWf8AkVrn/wADIP8A4qt+igDA/tnWv+hWuf8AwLg/+Kpf7a1v/oV7r/wLg/8Aiq3qKAMH+2tb/wChXuv/AALg/wDiqP7a1v8A6Fe6/wDAuD/4qt6igDB/trW/+hXuv/AuD/4qj+2tb/6Fe6/8C4P/AIqt6igDB/trW/8AoV7r/wAC4P8A4qj+2tb/AOhXuv8AwLg/+KreooAwDretgf8AIr3P/gZB/wDFVWjttX1jXLO/1e0isLTT2eSC1WUSySSlSm9yPlACs4AGeuSe1dRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//2Q==)

We created a entity called bloodDescription because it previously had a transitive dependency ;

![A close up of a device

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RCCRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQcOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAB6hwABwAACAwAAAhiAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB1AHMAZQByAAAA/+EKXWh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPnVzZXI8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgBTgFzAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDy7xb/yNV59V/wDQBRR4t/5Gq8+q/wDoAooA9RooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKDQTikLAAk8DGaAPL/Fv/ACNN5x3X/wBAFFReKLmGfxLdyW8ySxllwyNuBwoB5HvRQB6tRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABmkyMZ7VV1K8XT9Mubt+kMbP9fSuJi8EXPi/w8t14k8Qass1/Esvk2c4ijgDAEKowfxOeaANvVPGlnb3YsNHhl1nUm4FvaDcqH1kfog+tVpPDut+I0A8UagbWzYgtp+nsU3ezSD5v++SAa5C38D674RhaGTWfEOo6cpyJdNu0jkRfeMoc49d1buiaLp3iKzFzpHjvxJOmcFftyqynuCpjyKAKOt6fa6frE1pZW8cEEW0JGi4AG0UVHqtgdO1Oa0N7dXhjwPPu3DyPwD8xAGeuOnTFFAHqdFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZHir/kVdR/64mp9A/wCRc03/AK9Y/wD0EVD4q/5FXUf+uJqbQP8AkXNN/wCvWP8A9BFAF89RWHqvhHTNUuTdhGs78j/j7tW8uQ/Uj730NbtFAHkusRXtjq09teXrX00ZAa4ZFQuMDGQOOmB+FFWfFo/4qm8+q/8AoAooA9RooooAKKKKACiiigAooozQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUZozQAUUUUAZPir/kVdR/64mptA/5FzTf+vWP/ANBFQ+Kv+RV1H/riam0D/kXNN/69Y/8A0EUAaFFFBoA8v8W/8jTefVf/AEAUUeLP+RpvPqv/AKAKKAPUKKKKACiiigAooooAKytf8QWfhvTftuobyhdY1WMZZ2JwAB61q1xnj5RJdaErfMv2tjj3CnmgCMfEK5f5ofC+psh6E7ASPpupf+E/vf8AoVtS/NP/AIqoj1paAJP+FgXv/Qral+af/FUf8LAvf+hW1L80/wDiqjooAk/4WBe/9CtqX5p/8VR/wsC9/wChW1L80/8AiqjooAk/4WBe/wDQral+af8AxVH/AAsC9/6FbUvzT/4qo6KAJP8AhYF7/wBCtqX5p/8AFUf8LAvf+hW1L80/+KqOigCT/hYF7/0K2pfmn/xVH/CwL3/oVtS/NP8A4qq0lxBDJHHLKiPKdsas2C59AO9LNPFbxGWeRY416s7YH50AWP8AhYF7/wBCtqX5p/8AFUf8LAvf+hW1L80/+KqIEEAjkYyD60UAS/8ACwL3/oVtS/NP/iqP+FgXv/Qral+af/FVFTDcQrMITIglILBN3OPXFAFj/hYF7/0K2pfmn/xVH/CwL3/oVtS/NP8A4qoFmidsJIrH0DA07IoAl/4WBe/9CtqX5p/8VR/wsC9/6FbUvzT/AOKqKloAk/4WBe/9CtqX5p/8VR/wsC9/6FbUvzT/AOKqKloAk/4WBe/9CtqX5p/8VR/wsC9/6FbUvzT/AOKqOigCT/hYF7/0K2pfmn/xVH/CwL3/AKFbUvzT/wCKqOigCT/hYF7/ANCtqX5p/wDFUf8ACwL3/oVtS/NP/iqjooAk/wCFgXv/AEK2pfmn/wAVR/wsC9/6FbUvzT/4qo6KAHn4gXg5PhbUsd8FP/iq2PDfi6x8TPcxWsc9vcWhAmgnUK6Z6dCeKwz7VW0JBD8TvMi+VrnT9kuP4wjMV/Ik0AehilpAKWgDJ8Vf8irqP/XE1NoH/Iuab/16x/8AoIqHxV/yKuo/9cTU2gf8i5pv/XrH/wCgigDQoNFBoA4vXfCV3qWtXF3FIgSQjAJPZQP6UV2dFAC0UUUAFFFFABRRRQAVx3jv/j80P/r5b/0A12Ncd48/4/ND/wCvlv8A0A0AVqKD1ooAKKKKACiiigAooooAKKKKAPPfiO94nijwa2mBGuv7QbylkOFJ2HrWb4t1/UpdB1/QNbWH7ZZpbzpPb5VZEaRO3Ygn1rq/GHhW88RXukXenagthPpk5mSQpvJOMdOlZNz8Pb/U7bV7nVtUjm1XUlij3om2KJEZSABjvt64oAtwa7rmpX13Z6FHaxw6ZBFve4BJlYpkgen1qrYeOtQ8Rx6Rb6BbwR3V9A81w85JW32kAjHc5IFX7nwpq9tqVxd+H9ZjtBewpFdRywBwCq43qcdfaol8BS6VZ6Q3hzUvst7pcJi8yWIFbkN97eO2TzxQBRufH+o2cd1p01pbtrUOoxWCAMRG3mBSHP8A310qlqEuqr4/uItW8rzI9CnKyw5CvkDt2IrWl+Hs1xpV41xqzHWbq+j1D7asKgRyIAFUD+78opLbwTrU2vXOsa3rEN1cXFjJZ+XHHtSMHGCOPzoA82tktD4J0O5stF1HTr9XiebW5SywgAjJY7jkY9hXqviHxBeadPBHb6npdpEbbzfMuSWaU47KOg9896x7bwL4q/4RaLw3d6/Zx6WsIgcwQZkZO4BI4z61f1HwNfDxGNS0TUILcSWa2cvnwiQqq9GTI4PJoAg0/wAfXeu6PoZ0iCEXuqyyxF5M+XH5YO5sdxlePrVWfx7rtpdeKbaTT4rifRIoSiQgncWzlj7YxxVCfwld+CdHtJV1eQ/YL55rO4jtPN8pZMhxIoBJB3HkA4qz4T0fUdT1TxPrWn6pLC9+0UcF5LblN7IMk7GA+TnHTtQB1PhfXLrWJXLXun31t5YKy2xKurdwUP8APNdLXJaD4Tu7PxXN4g1Sa1W4ktvs4gsk2owyCXbgZPH6mutoAKKKKACiiigAooooAKKKKACq+jf8lIt/+vFv5mrFV9G/5KRb/wDXi38zQB6FRRRQBk+Kv+RV1H/riam0D/kXNN/69Y//AEEVD4q/5FXUf+uJqbQP+Rc03/r1j/8AQRQBoUUUUAFFFFABRRRQAUUUUAFFFFABXHePP+PzQ/8Ar5b/ANANdjXF/ECHULi50SPSIraW6N021bqVo0+4epUE/pQBCaKq/wBkeO/+gd4e/wDBhP8A/GqP7I8d/wDQO8Pf+DCf/wCNUAWqKqf2R46/6B3h7/wYT/8Axql/sjx1/wBA7w9/4MJ//jVAFqiqn9keO/8AoHeHv/BhP/8AGqX+yPHf/QO8Pf8Agwn/APjVAFqiqUumeOYYXkbTvD5CKWONQm7D/rlUGm2/jXVNOivLfTNAWOUEqH1CYEYJHOIvagDUoqr/AGR47/6B3h7/AMGE/wD8apP7I8d/9A7w9/4MJ/8A41QBboqr/ZHjv/oHeHv/AAYT/wDxqj+yPHf/AEDvD3/gwn/+NUAWqKqf2R47/wCgd4e/8GE//wAapf7I8d/9A7w9/wCDCf8A+NUAWaWqv9keO/8AoHeHv/BhP/8AGqP7I8d/9A7w9/4MJ/8A41QBaoqr/ZHjv/oHeHv/AAYT/wDxqj+yPHf/AEDvD3/gwn/+NUAWSoZcMAQeoI4NAUAAAAAdABgCqv8AZHjr/oHeHv8AwYT/APxqj+yPHf8A0DvD3/gwm/8AjVAFoUtVf7I8d/8AQO8Pf+DCf/41R/ZHjv8A6B3h7/wYT/8AxqgC1RVX+yPHf/QO8Pf+DCf/AONUf2R47/6B3h7/AMGE/wD8aoAtUVV/sjx3/wBA7w9/4MJ//jVH9keO/wDoHeHv/BhP/wDGqALVFVf7I8d/9A7w9/4MJ/8A41R/ZHjv/oHeHv8AwYT/APxqgC1RVX+yPHf/AEDvD3/gwn/+NUf2R47/AOgd4e/8GE//AMaoAtVX0b/kpFv/ANeLfzNN/sjx3/0DvD3/AIMJ/wD41TNAtNctfiRB/b9vp8Jayby/sVw8ueTnO5FxQB6PRSClzQBk+Kf+RV1H/riam0H/AJFzTf8Ar1j/APQRUHin/kVdR/64mp9B/wCRc07/AK9Y/wD0EUAaFFFFABRRRQAUUUUAFFFFABRRRQAVzviH/kYPD/8A18v/AOgGuirnfEP/ACMPh/8A6+H/APQDQB0VMc7VJHYZp9Ryn9230NAnscjYa34ivdOk1GGCyeAM+2MkhiFYjrnHar1t4qS6j0qdECQ3yM7FzjZgVi+GvC66joIkudQ1GNJJZd1uku1MeY3GMdKteIPD1nc3+jaX5TpZIrrsiOMDHTNdLUHKxwp1VC6NnRtYuNau55YIAmmoSsUrZ3TEdSP9n+dbQrk9Au59E1BfDeoq7Kqk2VwF4eMdFJ7MOnvXWVjNJPQ6qUm467kF/wD8g25/65N/I1514i8VX3gv4Jx61paRPcQkKBKCVwZCDXot9/yDrn/rk38jXkfxKgmuf2d/KtoXmkZ0wkalif3h7VBqdzb/ABB0HVrXUI9F1KCe9tbeSVYmODJtUncoP3lz3HFZPhH4lWdz8NNJ8Q+Lby2tLq+WQiFDzJtkZfkTqeAOlcxqWp2vivxPpj+GtLuIk0nT7oX0rQeX5GYSBEfU5x09KwfAUf8Awj+heCfEmt2E8mmW1jdQSy+SW+yOZpMFl685AzigD2uHxf4fn0N9YTWLP+z4ztkuGmULG391ueD7Gm6L4z0DxAkx0zUoXaFS8kbtsZFH8RU87ffpXjt7oOpaxZ67rlloty2kza5BfxWbJta6iRWDyBfTlTj2rX1zf4+167vPB1lOLZNBu7OS5MXlB5WVgsQB6nJFAHR+Jvijp8Nvp/8AwjF/a3c8+rQ2cik53Rtncyf3gMdRxUI8Y+LLzU/Eh0yDSRZaNcPCFuGZXk25Oc5wOlcNqOt2GoeGfBuh2GkXUeo6Xqdqt4PsxH2UjIILd9x9Kk3+CE8XeMYPGqXPnzalJ5SJHId6kn7uBg0AeoaD8QtN1H4f2XinV8abFcEoUc5y4cptX+9kjjFamjeMNC16xuLvT9QjMVrj7SJT5bQem9TyvQ9a8cudQ8T6H8LtHW6tXtLFdXKx3M1r5s1pZ7gUcoD97k/hisoxajea/wCK7WzGqXw17TInsJrqPabsRuCwyOF4Jxn3oA9wg8f+GLq4tYbfV4JJLubyIFVsmRvb1Hv0rozXiGpX9pr3iH4bnTNKmsxa3hjkeWLZtZIvmiHrjHWvbzQBzQ8UWlv4o1m0v9WtYrfToIpZI3GwwBgDuZjxg5rN/wCFg2mo+LfD+n6DdQXNvf8An/aAfvqEVSpx2Byee9ed+ONG1DVfG/j9LC0muGW30yYxIp/fojRM6g9DwDx7VtWniTS/E3xQ8JzaHYXEcVrDPFLO9sY13bF/d59V/rQB7FRiiigAxRiiigAxRiiigAxRiiigAxRiiigAIrmbr/kpdh/14v8AzNdNXF6/LqUXxE046RbW9xL9ik3LPMYwBk9wpoA7SqerzyW2jXs8DbZIoHdGxnBAJFZH2zxf/wBAnS//AAOb/wCN1S1q68WnQr8SaVpgU28m4i+bIG0/9M6ALGp3pl+G893eyjc9pudzgDJ/StnQgV8O6cGGCLWMEH/dFcbpWga14k0bTIvEM9rBpMQSRrK3Bc3JHQO5xhfbBzxzXoCjA4GKAFooooAKKKKACiiigAooooAKKKKACud8Rf8AIw+H/wDr4f8A9ANdFXO+Iv8AkYfD/wD18P8A+gGgDoqQrS0UAJijbS0UAJtpaKKAK9//AMg25/65N/I1meDv+RRsP91v/QzWnf8A/INuf+uTfyNZfg8/8UjYf7rf+hmgDbxRilzSZoAMe9GKXNFABikxRnmjNABiorq1S8tJbaYuElUqxRipAPoRyKlzS0AcfZ/D6O3vY7q41nULyW1jaOxa4ff9l3DG4Z6nB6mlPg3V/wDoctT/AO/cf+FdfRQBXsbZ7WxhgmuHuXjQK00mNzn1OKsYoooAKKM0UAFFBNJnnFAC0UUUAFFFFABRRRQAVzN3/wAlLsP+vF/5mumrmbv/AJKZYf8AXi/8zQB0oFVNWt3utHvLeEAySwOignqSCBVygjNAFHR7aSz0a1t5xiSKMKwBzzV4DFJiloAKKKKACiiigAooooAKKKKACiiigArnfEX/ACMPh/8A6+H/APQDXRVzviL/AJGHw/8A9fD/APoBoA6KiiigAooooAKKKKAK9/8A8g25/wCuTfyNeaeLfEmpeEvgWmr6JKkN3CwCu6BwAZDng16Xf/8AIOuf+uTfyNeV+PNJ1DW/gCLHR7Oa9undSsMCFmOJDngUAdJa/E7RtYivbTTpLm31BLOW4tlurZ4/PVVJ3pkYIBx7+1ZHhH4p28fw00HVPFdy1xq+prKY7e0tyzzlJGHCqDjAA5OBVTVjq3i3xHpk1p4dv7CHS7K5E8lzAUy7RFRHHx8+Se3pWH4F0PWvCuk+D9bv9BvpRZ2VzbXVssBNxblpZGUiPGTkMPwoA9Mi+I/hd/DVxrj6l5VlayeTP5sTq8cn9woRu3fQUuifEPQdbe4iSWazntoWuJYb2BoWEQ6yfMMEV5ve+EPEGrx63ryaO8Ym1qC/t9Ol4eaOMMCWU9GO4ce1aviHTNX8f65c3djpF5ptuuiXVlvvozE8ksisFUKf4cnrQBY8SfFm1uLbSR4VuZVkutXgt981owS4gJIcoWGMcdetRt4v8T3GreKGg1rR7K00i5kihgu1ClwuT169qxNSOt6r4Z8I6DD4S1OGfSdRtjdym2YRxhMglTj5ge5HSrEGmWFt4o8Wf8JJ4L1jUxd6i7wSw2MrxyRknow4x70AdnoPxEhn+G2neJ9ft3tZLxvKEEKM7SPvKDYMZIOMj61o6P4/0PV7LUZzLLYvpYDX0N5EY3gBzgkdwcHpmvMJ9L8caZ8PdLgFvex266uZGgs4RLdWlluG1VyD8w556iqEnhjxDd674ojtdF1YW+uadELSa93Hc0bglZSfukjoDQB6nbfFLw1d3en20M9wJdSm8m1Els6ebxkMNwHykd67GvGNZuLzWPEnw4S40SfS2tLwq3nptbckPKqOu3jIPSvZ80Ac5rHjvQtE1f8As29nlNyqCSVYYHk8lD0ZtoOAeKy5/i14Yg0nTdRMtxJBqjSpa+VCztIYzhgFHNZtxFqeg/EHxNdnRri/tdYto/InjGVUpHtZHP8ACPrXJ+C9Dv3h+G88djLLBaXOoPcSRxkpb7n+XJ7dwPpQB6HqXxR8O6ZcLBKbyWYRrLcJDaO5tUIyDJgcfTr7VrW3jDSLzVNNsbO4M76nbG6tpEX5WjGefbpXHuNR8L6/4pDaDe6jHrTb7We0iMm47WGxyPugZ6msHQPD+v8Ag2fwbf6hpdzepa21zBdx2aGVoDI7sgwOw3gZ7YoA6Dx18TE03R7mbRLjyZdM1mKwv2li3AAqxYD8hzXReG/iBovibUpdPs/tVveInmrBd27RNJHnAkXI5H615B4i8O+I9R0HxVJH4cvmmuvFMF3Db+SxMkSqcsCOo969Asm1HxP8VtO1uLRr7TrDTrKSGaS9hMTO7H7qg9QM9elAHpAooFFABRRRQAUUUUAFczd/8lMsP+vF/wCZrpq5m7/5KZYf9eL/AMzQB01FFFABRRRQAUUUUAFFFFABRRRmgAopM0tABRRRQAVzviL/AJGHw/8A9fD/APoBroq53xF/yMPh/wD6+H/9ANAHRUUUUAFFFFABRRRQBXv/APkG3P8A1yb+RrM8HD/ikbH/AHW/9DNal/8A8g25/wCuTfyNZXg8/wDFJWH+63/oZoA28e9GKM0ZoAMUYpc0maADFGPejPNGTQAYqG7tIb6zltbuMSwzKUdD0YHtU9JQBymn/DzSNNuRPDNePJHE0NsZZ932VSMYj9OOKP8AhAov+g9rX/gX/wDWrq6M0AcvqHgHTNR8ppbm+jnWEQSzxTlXnQdnPeugsLG302xhs7OMRwQoERR2FWM0ZoAMe9GKWjNABikxS0maAFopAaXNABRSE0A0ALRRRmgArmbv/kplh/14v/M101czd/8AJS7D/rxf+ZoA6aiiigAooooAKKKKACiiigDmP7H8W/8AQzWv/guP/wAcpP7H8W/9DNa/+C4//HK6ijFAHL6Zqer2HiJNF1+W3uTPEZLa5hjMe7B5UqSecc9a6gdK5vWx/wAVn4bP/TWb/wBEvXSUAFFFFABXO+Iv+Rh8P/8AXw//AKAa6Kud8Rf8jD4f/wCvh/8A0A0AdFRRRQAUUUUAFFFFAFe//wCQbc/9cm/ka8t8c61qPh/4BDUNFvJbO7jZQs0WNwBkORzXqd//AMg65/65N/I15h4z0DUvE3wITTNEtjc3kjKUjDAZxISeTQBrRfEqPUPtOnS6Xqej3s9hNcWEl3EFE6qmdynPBHBxWH4H+Jb2/wAN/DQ1Vb/XvEGqRzvHDbxh5JAkjjcx4AAAxn2qzqdj4k8W+IdPnm0KTTINLtLgSNNIhM0rxFAqbSeOe+Kx/BfhPxH4S0jwnqsmjvcT2FpcWt7ZLInmJulkZWUk4/iGeaAO1/4WroMfhu81a8jvLVrK5FnPZSQ/6Qs56Rhc8k9vpUum/EWxuLm6tta0++0K5trV71o7+MLugXq4IPOMciuKuvAfiPVY9Z1w2cdve3Orw6ha2DuCTHGGGHI43Hf69q0tb8Pa7491q4vZtMfR7ZdHubFFuJFMkksisB90n5RmgCp4n+J0+o6foMmiW2qaXHfaxAkV1LEFjuoMncAcnAPHFReH/ibqOna34ui1Ww1XVrPT9anja5hQFLOAOQB74449Kiv9O8W6r4f8LaCfDMsP9j6hbvdXJlj2ssefmQBs49aks9M8T6SnjjTV8Nz3A17Url7O4Eseza7EBm+bIGDmgDudW8dxWTWkek6Zd6vNdWwu1S3GMRY4JJ7n0pknxG0r/hGLHWILe8uDqEvkW9nHFmZ5ccpjPBGOa4y/8NeI7HWdJtrqxvtW0mDR1thBZ3QiRLjnczAsMjpg+1Zeg6J4k8O6Npcd/pKRT6PrLzRxvdRgXsciniLLfeGOhxQB6T4d8f2fiLxVe+H47G8s76xtlnuEuUC7dxxjr+tdVIdsTkdQpNeYeDIby8+N/inVru1Ntmxt7fy8htp4bDEcbsHpXp8o3QuF5JUgUAeX+ELrxr4s0W71e28RW0Dpe3FvFbSWe5MRuVXJDDritTSPiZCPCc1/rtuxv7S/Omy21mu9pZwAQEBx1DD86xPBl14p8I+HbvSx4PvLu5bULmaKQTRCMq8hZSTuz3FVrn4a6z/widrNOn2nUpNYOq39tDOU3A7QURuOQqj8aAOutPiXp5j1RdYsLzSrzS4BczWk6gu0R4DLjqMkD8ataL47g1SSAXWmXunR3FsbqGa4QeW0YGclh0OOcVzOi+GUa41bVE8HXEU5tPsqLqV95rXSEgsmNxAHyiqWj+F9WbxCINHsdR0PQpbGWG9s7u4EkZkZSE8oBjtwcegxQB0unfFHT9R1S0t/7L1K3s79mWy1CWHEM5HoewPY1lah8UbPVvD+qS2lnq9ra2Uvky6hAoUK6yhdqsc5OevFXPDVz4q06y0zw6/h0KlqDFdX8kyiMoAcMgBySeOCPWshvCGrp8E9U0WGwf8AtCfUJZlgLrlg1zvznOPu80Abk/xOtbXUrzSbPSdT1S8sIIpZVtogx2MM7ie1TyfE/SprfRZNHtLvUpNaVnt4okAZVUfNuyeCPSuU0K61XSviV4tay0h9RBs7OJ44nRXRwjDncRkc/pRp/gm40bwVo+l694ek1h42luJJ7GZY5rOVznCHIwOSODQBq+Jfipc6dbaFJpOiXUj6hqi2M0M8e10O4AqB6kHg+9XLfx5p2lP4kvNRn1BxZ3ccJtXAcrI2cRxAY649a5KXwt4zl8NaFdX1vcX8mkeIUvYLSWVWuBaBlwrMTgsME9emKvXHg/Xru68R38On7JpNXgvrOKZ1xMqhgw4PB+bvQB1dj8SLad7+31LSNQ0q+s7N737NdxhTLEueVOeTx07VVsPi1pd+2kTLpmpRadq8ght7+SECIynOFJz7HmsPXNB8Q+L/ABU+vf2VLptvZ6Nc2cdvNIhkuJZEYADaSAAW70/UPCesyfCnwhpNvp5+12Go20txCrKPLRS+49ccZHT1oA9WFc1d/wDJS7D/AK8X/ma6UVzV3/yUuw/68X/maAOmooooAKKKKACiiigAooooAKKKKAOb1z/kc/Df/XWb/wBEvXSVzeuf8jn4b/66zf8Aol66SgAooooAK53xF/yMPh//AK+H/wDQDXRVzviL/kYfD/8A18P/AOgGgDoqKKKACiiigAooooAgv/8AkHXP/XJv5Gsvwd/yKNj/ALrf+hmtO/8A+Qbc/wDXJv5Gsvwef+KSsP8Adb/0M0AbmKMUZpM0ALijFFFABijFJmjntQAuKz9Y0Ww16xNnqluJ4twZckgqw7gjkH3FXsmnUAc5H4G0SHSX0+GKaOKSXzZHWdxI7epbOTUMPw+0WCZJUa9LIQwzdyEZ+ma6mkPSgAApcUn0oz60ALijFFFABijFFFAGfaaLY2Oq3uo20Oy6vtvnvn7+3p/OtACiigAxRiiigAxRiiigArmbv/kpdh/14v8AzNdNXM3f/JTLD/rxf+ZoA6aiiigAooooAKKKKACiiigAooooA5vXP+Rz8N/9dZv/AES9dJXN65/yOfhv/rrN/wCiXrpKACiiigArnfEX/Iw+H/8Ar4f/ANANdFXO+Iv+Rh8P/wDXw/8A6AaAOiooooAKKKKACiiigCC//wCQbc/9cm/ka8m+Il9d6d+zz9p0+5mtp1ZcSQuUYfvD3Fes3/8AyDrn/rk38jXmvirw1qPi34Hx6Ro6o91KwZQ7YGBISeaAL0njy/dpNK1rQ59Im1DT55rCUzB9+yMnDY+63fBrnvh349vLX4d+FdLgtLnXNd1KG4lUPNgBElf5nkb6Y69q1r3QvFfinXrK61bT7fToNLtJ0ASfzDczPGUBHyjavPvWX4S8DeJfCOjeF9Qgs4Lm+022ntryyM23cryOylWweRu6YoA6KX4sWNnoN9d6hp1zDqFjfLp8mnqQztM33QCOCDg8+1WofiC9jeXVn4s0qTSLiCxk1AYlWVZIUyWwV/iGDxXMz/DjX9Tt9X1i4a2t9Xu9Ui1C2tg5ZIljDAIzY5JDHnFXtT8Ja9441ee+1q1h0iFdJuLCKFZvNZ3kUjeTgYAz0oAyfFvjjVdX0XwzdxaXd6VaahrNu1vcLOP3kWTlXA5XPoetZGoa+kXiHxfcal471DSbiyvJI7Szh2ONozgBGUk8gdK2L3w5421TRfDehXGlWsNvot9BLPc/adxnWPOCq7eOPetKw0vxDoPiHxJKnhe21SLUr5p4JZJgvynPBypx1oAu+HPGOup8LdE1TVdMuNT1e+fy9kEeBy5CySEDCDbgknAqzY/E23SHXk1+zNhd6FEk1xFHKJRIj5ClSOvIx+Nchc/DbxPa+C7C2idbt11dtQu9MS4KRmJmB8lWx93j071Su/h7rcN/4ivbi0stJ0zWNPUFlmZxZNGwYbuPmzzmgDuD8TJ7fUfD9pqXh+4szr0oW2dpVYBCu4E46Nj+HrXfGvFbm61LxB4j+Ha3osgttM0w+yXHml1WE/vjwNqnHQ17F9utP+fqH/v4KAPLPEesGX4r6jpep+M5/D1jBZxSQJG8Sh2IGeXB9TWzYaonh7w7qWt6V4gu/GMUG3zYvMjYxKMliuwDJwelQ32l6zZfE7UdestCg1exvLOKKNjKBtKgZ6g+laV1eeKrrw/e22k+HrfSr2UCOGRpQyLu4LEBR0FAEUvxQtJbfVL/AEi2N9pWmWYuJr1G+VnOMRr6nGc+mKbZfE2SW70JtR0O4stO17YlldtIDl2AIDL1XOeM9a5LUPBd/wCAvAXiTQrL/SdAurAyJcu37yKckBgR3DZz14xWrY6B4h8Rab4KtLyztrXTtHS2u5LpZi5m2Iu1VXAx0GeaAPVQeaWkH3qWgAooooAKKKKACiiigArmbv8A5KZYf9eL/wAzXTVzN3/yUyw/68X/AJmgDpqKKKACiiigAooooAKKKKACiiigDm9c/wCRz8N/9dZv/RL10lc3rn/I5+G/+us3/ol66SgAooooAK53xF/yMHh//r5f/wBANdDmuY1+6gfxRoUCTI0yTuzRhslRsPNAHUUUUhoAWkpMj1FGfSgLi0tNz70tAEN//wAg65/65N/I1l+D/wDkUbH/AHW/9DNad/8A8g65/wCuT/yNZng7/kUbD/db/wBCNAG1ijFLRQAmPajFLRQAlGKazBRliAPUmlHTrQAtIyB1KuoKsMEHoRQpDYKncPUU6gDCs/BXhzT5Lp7HR7W3e6UpK0cYUsp6jjoPaqX/AArbwn/0Boa6o0xmC4yQMnjJoAjs7ODT7OK0tIxFBCoREHRQKmxSZ96WgCC9srfUbOW0vIllglXa6MOCKkggjtreOCFQkcSBEUdgBgCpKRqAFopqMGGVO4HoQetONABRTQylioYFh1GelJvAYAsAT0GetAD6KQUtABRRRQAVzN3/AMlMsP8Arxf+Zrpq5m7/AOSmWH/Xi/8AM0AdNRRRQAUUUUAFFFFABRRRQAUUUUAcr4ruo9N8QeHdQuzstI7p4pZT0jLxsq59AWIH411KsHUMpDA9CDwagvbK21C1ktb2FJ4JMbkcZB7/AM6wP+EA0MfcF6g7Kt9MAPw3UAdMc1ja34q0vQYwLuZpbhztjtbZDLLI3YBV6fU4HvVE+AdFHe//APA+b/4quRn+FDaHr8+s6A8uopOcy2t1dyLKntFIGGB7NmgDp3i8V+JItsj/APCOWb/eVCHuivpkcIfcE4qCXw3pvh/VtCTTrfbI9y/m3Eh3SzHYeXc8sfrVHS4PDN/qC6beHU9M1Nh8tnd3syPIO5TLfOPcVoXeg2ejeItFezNwxedg3m3DyD7h/vE4oA7SkNLSHrQB5joq6XqC3sms63fQ3C3kiBFvXQBQ3HAq7rOuw+GNV0sw3Nzc2n2KXYhdpDKwK4JPfvya3fDnhpNOtLlNRt7eaSW5klVigb5WOQM1LdaCZ/FFjerHF9lt7eSJoyo4LEdB+Brq54c+uxwezqezVtxPDEFxNbnV767NxNeqHVEfMcS9lUevqa6Cue0fR73RNXuIbZlfSJvnSMn5oH7gf7NdFWE99DqpJqNmV7//AJBtz/1yb+RrM8Hf8ijYf7rf+hGtO/8A+Qbc/wDXJv5Gszwd/wAijYf7rf8AoRqDU26KKKACiiigDi/i1K8Pwu1mSJmVliyCpwetUIPHGrwahpun+ItIjsodbhkFlLHLuZGWNn2yDscKema6Dx5oV14l8EajpNgyLcXMe1C5wAa5ePwh4r1rXdGm8Tz2CWuheY0P2UNuunaNowzZJ28NmgDP8EeLL6y8FeHNH0u0F9qmoNeOrTuVSNEuJMlj1/8A1VsP8UTaaXqSXunZ1nT7yOyks4XyHeTOxgT/AAnaT+FVNK8Ca/oOkaBdabJaPqukm5WSCXPlzxyyu2AQeCA3X1pR8NtTvNP1W/vLu1i8QajfRXoeNGMUXl5CJjOSMMwJz3oA0D8QbvRdVutN8X6fDaXEenyahC1tLvWZEzuXnHzDBrnPEXiPXtUTwhNqWlLp9vfa1BJC0U25lTDYWQepznjNa8vgbWvFWs3Oq+L2sbeX+zJdPtYbQMQhfIaQkk5+8ePSqMnhDx1qFx4dtNUn0s2Gh30cxeEMHuFUEAnJ4I9PegDibnVdKkv/ABnJrGt+KF1S11S6jsYtOluCiAM2wAKNgwQOpr0vw/4g8QWnww0W7uFg1LUpwEmnmukREBJ+Z2zyQMZAyc5qhpeg+OvDmqa+ukWekz2uqajNdpLdOcqrsSAVBHrUF38MdXt/DOiQWc9pe3Wn3z3lxaSApbz7zkqBngDtQBpw/Eyb+wfEM81pby32hSxJKlrNvjl3nja3rxUr+NtU/te10nWdKS0j1exlntJI5CzKVjLFX9Dj0zXO2vw38U21xry/8SlbXXlhmmjt0KeRLG4IVRn7u0tk+uK7HX/C99qfiDw/e27RiLTYLiOYE8kvFsGPxoA5z4eeLpp/Dnhrw/oyJfXotPNv5Xk+W1j3EDcf7x7D2r1LNeW6H8O9R8HWOh6jojW0OoWymPV4y+I7qMkktnsw4wfrXcf8Jl4Z7a9p3/gSn+NAHH3Xja00Lxd4xkGlhrjT7e1JdH+a5Llwq47Ywfzqrcalrdx8XvCMOuWcdm7W9w5FvKWRsr05xyKlvfAV34g1fxZqdnfW32fW7e1+wTqd4DxFzk47fNU9n4b8Y6n8QdD8QeIxp0MOmwSRNFaliSWXG7kngntQB6UKKQUtABRRRQAVzN3/AMlMsP8Arxf+Zrpq5m7/AOSmWH/Xi/8AM0AdNRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRiiigDO1fRNO120+zataR3MecjcOVPqD2NcrNok+ieJNERdUubqzadxHBcfMYjsPRvTHbFd3XO+If8AkYPD/wD18v8A+gGgDoqQ0tJQAlFc/H4y02ZpBbx3swikMbNHaSMAwOCMgVeh1y0lura2zJHNcxmWNJI2U7RjOcjjqOtVySW6M1Vg9maVL2rPs9YtL++uLW0dpWtziRwp2A+m7oTWhUtNblpp7EF//wAg25/64t/I1meDv+RRsP8Adb/0I1p3/wDyDbn/AK5N/I1meDv+RRsP91v/AEI0DNuiiigAooooAMUYzRRQAmKMUtBoASisO+8UW9l4z0zw5JbytPqMUkqSgjagQEkHv2raDAsVDAsOozyKAHUuK5rwx4ztPFGoa3aW9vLbto9+1jIZSMSsM8rjtxXSZoAKKzdX1SbS/sfk6fNe/ablYG8kgeSCCd7Z7cY49ab4k1yHw14b1HWbiJ547C3ed4oyAzBRnAz9KANNlDqVYAgjBB71R/sDSf8AoHW3/fsVNpt6uo6bbXkasiXESyBW6gEZxVqgCOGCO3iWKBFjjXhVUYAp+KWigAooooAKKKKACuYu/wDkplh/14v/ADNdPXEeJNKOrfEDToo724spY7N3jmt3wVOT1HRh7HigDtgaWuOfVvEnhqRBrdmdX07+K+sl/exe7xjlv+Aiuh0vW9O1qDzdLu47hR94K3zJ9R1B+tAGhRSCloAKKKKACiiigAooooAKKKKACiiigArnPER/4qHw/wA/8vL/APoBro6w/E2jXOrWkD6bOlvqFnMJreSQHZkdVbHOCOD9aANyk71y6av4sRQtx4cikkHDNBdLsJ9txBx9aX+2vE//AELB/wDAlP8A4qgDI8HHV/sV/wD2elsYvt83MjHP3qb4pttXvPE2m29hPHbXkljMGkAzjlelaNnea7YRuln4T8pXcyMFuY+WPU/epXvdekvo7x/CYa4jUokn2mPKg9R972Fb+197mON4e8FFsteDLq2Oj/YI4RbXVmfKuYT1392989c+9dJXGrPra6k2oJ4RC3TJsaUXKAsPQ/NzVv8AtvxP/wBCwf8AwJT/ABrKTTd0dFOLjHlZ0F//AMg25/65P/I1meDv+RRsP91v/QzWfcat4omtZYh4ZwXQrk3KcZGPWqmiXXinStGt7J/De9oQQWFymDkk+vvUmh21Fcx/bfif/oWD/wCBMf8A8VR/bfif/oWD/wCBUf8AjQB09Fcx/bfif/oWD/4FR/40f234n/6Fg/8AgVH/AI0AdPRXMf234n/6Fg/+BUf+NH9t+J/+hYP/AIFR/wCNAHT0VzH9t+J/+hYP/gVH/jR/bfif/oWD/wCBMf8AjQBzHjW8j0/4weHrydmWO30y9lYp94BYnPHvXnsd9Fp1v4O8Q6RaSWQvtUAN1dX5lnuYyTnzFwBj8sV6zdrql/qMV9eeDUmuYY3iSRriMlUcEMOvQgkVhp4LtY7Z4B8O7cxM24I1whCHOfl5459KAON8PeHNH1e/+KF/qM8iXFpqly9s6TlPKYbmDgDqcivZPAl7cah4F0i6vHaSeS2G526tjjP6Vx8ng+CSaWVvh/FvnkMs2LpB5rZz83zc81urqnjC2RYLDwlax28YCxobtV2j0wDQBS+K880H/CI/Z5HQv4hhUhWxvHlS8H2rzvVLC11f4U+NfEGrX8/9tLcXsO/zsFER2VYQvTaVAHTPNel3T+IdX+z/ANt+DoJvsk4uLfbdKdkgBAbk9cMfzrMv/CyaneT3N94Ahle5z5wNxHtcnuRnBPvQB2/hf/kVdL/69Y//AEGtauUg1TxFa28cFv4V2RxqFRRcpgAdvvVJ/bfif/oWD/4FR/40AdPRXMf234n/AOhYP/gVH/jR/bfif/oWD/4FR/40AdPRXMf234n/AOhYP/gVH/jR/bfif/oWD/4FR/40AdPRXMf234n/AOhYP/gVH/jR/bfif/oWD/4FR/40AdMa43XYtQn+IVgmk3kFrOLJyXmgMoxk9gy/zq2da8UEYHhnB7ZuUx/OqEOi+J4ry71tvsEmt3qpbopdvJs4FyRjjLNlmPTmgC5eL4k0+1ee+8TaTBCgyzSaawAHf/lrXn93pPifxnfx3XhS8s7URyAjXI9Pa2LDPPlgyEOO2SK9CsPBNv5iXXiO7k12+B3GS5GI1P8Asx/dX8K6dQAAAMAdBQBy0Wj+MUhRW8UWTsqgFjpp5/8AIlQ3l/4l8MpFd6td2ep2DTJHM0VuYXhDsFDfebIBIrscVgeOf+RG1f8A69m/lQBvIQyhlOVPIPrS1U0n/kC2X/XvH/6CKt0AFFFFABRRRQAUUUUAFFFFABRRRQAYoxRRQAYoxRRQAYooooAKKKKACiiigAooooAKKKKACiiigAooooAKMUUUAGKMUUUAFFFFABRRRQAUUUUAFFFFABRRRQAYooooAKwPHP8AyI2r/wDXs/8AKt+sDxz/AMiNq/8A17P/ACoA1NJ/5Atl/wBe8f8A6CKt1U0n/kC2X/XvH/6CKt0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWB45/5EbV/+vZ/5Vv1geOf+RG1f/r2f+VAGppP/IFsv+veP/0EVbqppP8AyBbL/r3j/wDQRVugAooooA//2Q==)

<<BloodBags>>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| bloodBag\_ID | BloodBag\_Group | BloodBag\_Description | BloodBank\_ID | BloodBag\_Exp | Lab\_ID |

The relationship between BloodBag\_Group and BloodBag\_Decription has a Transitive dependency.

The description of the blood only depends on the group of the blood bag, which is a non-primary key. we eliminated that dependency to satisfy the 3NF and therefore created table below to normalise the whole entity relationship diagram.

<< bloodDescription>>

|  |  |
| --- | --- |
| BloodBag\_Group | BloodBag\_Description |

<<BloodBag>>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BloodBag\_ID | BloodBag\_group | BloodBag\_Exp | BloodBank\_ID | Lab\_ID |

A close up of text on a white background

Description automatically generated