**IDX G9 BIOLOGY S STUDY GUIDE ISSUE 2**

**By Mya and Isabella**

3.4 Cycles of Matter

A. Recycling in the Biosphere

- Energy enters as light (trapped by photosynthesis) and is usually lost as heat

- Matters/nutrients are recycled

- Matter: anything that takes up space and has mass

- Matter is never created/destroyed

- Matter only change

B) Energy Flows and Nutrient Cycles

- Energy enters from sunlight

- Producers capture sunlight

- Energy flows through the trophic levels in the food chain

- Energy transfer is approximately 10% from one level to the next

- Energy transfers to detritivores or decomposers in dead organic matter

- Heat energy is lost through cell respiration

- Energy loss due to material not consumed

- Nutrients absorbed by a producer from the ecosystem

- Nutrients move through the food chain by digestion of other organisms

C) The Water Cycle

1) Evaporation: Water→ vapour

- Transpiration: water loss from plant leaves

2) Condensation: cooling water vapour condenses into droplets around dust particles

3) Precipitation: Rain, sleet, snow, hail

4) Runoff: the flow of water occurring on the ground/underground

5) Percolation: gradual filtering through porous surfaces = infiltration

![A diagram of water cycle

Description automatically 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AAAD/AAD///8A/v8A///+////AP////8AAAAA/wD/AAAAAAAAAAABAQABAQECAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAD///8AAAD///8AAAAAAAAAAAAAAADFYhWZAAAgAElEQVQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA//8AAP8AAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAD/AAAAAAAAAAAA/wABAQACAAEDAQEEAQEEAwMGBAQIBAQJBQUEAQEDAgADAQEBAQECAgEBAQEBAQABAAAAAQAAAAD/AAD+AAD+/wD+/wH+AgL9AwH+///9/wD+/wAC//8A/v4B/wD7/f0BAQH8/v/+/wD/AP8AAP////7//wEA/wEBAf8AAP8AAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAP8AAAAAAAAAAAAAAAAAAAAAAP8AAP8AAP8BAAABAP8BAP8CAAABAAACAAACAAACAAAAAAAAAAD/AP//AAD//wD/AP8AAAD/AAD/AAD/AAD/AAAAAP8AAP///////gEAAAH/Af//AQH/Af7/AAD/AAD/AQAAAP8AAAAAAQEBAgAAAgIBAAH/AAH//wAA/wAAAAAA//8A//8AAAAAAAH/AAAAAAD+////AP/+AAABAP8B/wECAf4BAAEBAAAAAgEDBgQD/gAAAAAAAAABAAAAAAEAAAD///7+/vz//wH+/gEAAAABAQEAAAD//wD///8AAf8CAwEBAQEEAwEDAgcHBgIPEAj6+f/6+v/6+f75+fr5+fv5+fr6+fr5+fr8/P39/f38/P39/f/+/v7+/v/+/v3+/v/+/v////////8CAQMCAgMCAQIAAAEAAAAAAAEAAAEAAAEAAAEAAAAAAAEAAAAAAAEAAAEAAAEAAAAAAAEAAAAAAP8AAP8AAP8AAP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD////+/f4AAf/+/v7//v4A//8BAQIDAwQCAQAAAQEAAgEAAgIBAgIAAQH/AQAAAAD+AAD/AAD//wAAAAD/AQD/Af8AAQAAAAACBAIEBQL+AAQCAwf9/gL8/QD/AQMDBAYEBgAAAAIBAAMCAgL9/f/7+vr/AwQEAwT//v3//v3//v78/Pz5+fr2+PoB/wEDAQECAQIAAwABAQMBAAEAAAAAAAEAAAAAAAEAAQEAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAABAAAAAAAA/wAA/wAA/wAAAAAA/wAA/wAA/wAA/wAA/gAA/wAA/gAA/gAA/gAA/P8A/P8A/P3/+vz++vz9+vz8+vz8+/z8+/z9/P79/P3+/f///v8A/wAB/wABAAEBAAEBAAAAAAABAAIC/wID/wID/wAA/wD//v///////wD//wAA//8A/wAA/gD//wAA/gAAAAAAAAAAAAAAAQAAAAABAAABAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAQAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/////v79+/v8AQEBAAEBAgQFA/7/Bf7/AwMDAgEBAQAB/v39/fz8/v39BQMDBAMEAgICAgME/wb////+/v/+/////f/9/gD+/v/+AQICBQIFAgICBAMDBAMEAQEB///++vv6AP8AAP7/AQIBAwIDBAQEAgIC/wAA/P79/f39/P39///+AwIDAwIDAAEAAAAAAAAA/wD/AP///wAAAAAA/wAA//7/////AP7//v///wD+////AAAAAP8AAQAAAAAAAAAAAQMDAgICAgICAAAAAAAAAAAAAAAAAAAA////AAAAAAAA////AAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAA////AAAAAQAAAQAAAQAAAQAAAQAAAQAA//8AAP8AAP4AAP4AAP7/AAIBAQEBAgIDAwMDBQMDBgQEBwYFCAUFBQIBAgAAAwEAAQEAAgEAAQEBAQAAAAAAAAEAAAAA//8A/wAB/gAB/v///gAA/gAA/v8A/gAA/gAAAf////7+//8AAQEBAP39AAD+/P4A//4AAP//AP/+//8BAf8BAAACAAD/AAEBAQABAQABAAAA/wAAAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAD/AAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAQAAAAAAAAAAAAAAAAD/AAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAH/AAD/AAAAAAAAAAAAAAABAAD/AAD/AAD/AQAAAgAAAgAAAQAAAgAAAgAAAgAAAgAAAAAAAAABAAAA/v/+//7//wAAAAEA/wEBAAAA/wAA/wEA/gD//wAA//////8A/wAA/gEB/wAB/wEBAAAB/wEB/wEBAAEAAAEAAQEAAAICAQIAAAD//wAB/wD/AP8AAP8AAP//AP////8AAAAAAP8A/wAA/gD/AAAAAf/9Af8BAAAAAgABAQAAAQEBAQECBAUFAQAAAP//AP8A//7//v//AP7////////+AAAAAAAAAAAAAAABAQEBAgEBAAAAAgEBAQIBAAMCAAADCAgFAwIIAwMA+voA+fkA+fj+9/f69vb69/f59/f4+Pj3+fn7+vr6+vr7+/v8/Pv+//z+//39/f38/f7+/v7+/v7/BAQFBQIFAAEEAAABAAAAAP8BAAABAAAAAAEBAAABAAABAAAAAAABAP8BAAABAAAAAAABAAAAAAD/AAAAAAD/AAEAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAABAAABAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA//////79/gAB//39//7+Af8AAgECAQMCAAMCAQMDAQMDAAEAAAEB/gAA/f7+/f///v////8A/wAAAAIBAAABAAIBAAABAAAAAgQDBAADAAMFAgMG/v4C/PwAAAADBAQGAP8BAv8CAgAD/v79/v3++/3+/wQAAP8BAf/+/f3+/v3+/Pz9+fr79/j5BAECBgMDAwIDAAEBAQIAAgAAAAEBAAACAAD/AQIAAAAAAQEBAAAAAAABAAAAAAAAAAD//wD/AAAAAAAAAQAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAP8AAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAA/wD/AAAAAAAAAAAAAAAAAQAAAAAAAAD/AAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAQAAAQAAAAAAAP8AAAAAAQAAAP8BAQAAAAAAAP8AAP8AAP8AAAAAAP8AAP8AAP8AAP8AAP8AAP8AAP////z9/vv+/vv9//v9/vv9//v8/Pr8/Pr8/Pv9/fv9/fz9/v3///3/AP8AAf8BAf8AAAAAAQABAf8BAQAAAAAAAAEAAQD/AP////8AAP8AAP7/AP8AAf8BAP8AAP8BAP8AAQAA/wAAAAABAAAAAAAAAAABAf8AAQAAAAAAAQAAAAAAAP8AAAD/AAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAA/wEAAAEAAAEAAAEAAAAAAAEAAAAAAAD/AAAAAAAAAAAAAQAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAP8AAP8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BAwAB/v7/////AAH8/fj6AP///gD+/f/+A/38AwQEAgQDAgQCAf4A/wIAAP8BAAMBAf8BAf8AAAEAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAAAAP8A/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAP8AAAAAAP8AAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAD/AAAAAQABAQAAAAD/AAD/AAD/AAD+AAD9AAD7/wD7/f/4/P74+/v6+/z6/Pz7+/z8/v/9/v/9/wD/AAD/AAD/AAAAAwMCAwP/AAAAAAAAAAD/AQAAAQH+AAAA/wD//v//AQAAAQAAAAD/AQEAAwMA/wAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAP8AAAIBAAEAAAAAAAAAAP8AAAAAAAEAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAQIEBAMFAwIFAwMGBAIFAwMFBAQGBAQDAQAEAQAEAQEDAAAEAQADAQECAAACAAACAf8BAAACAAAAAAAAAAD/AAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA//8AAP8AAAAAAAEBAQEAAAABAQAAAAD/AQABAAD/AAABAAD/AAABAAABAQACAAACAgACAQECAQIC/wACAv8BAQH+Af//Av///AD/AAD+/////wH+//8AAAAAAAAAAAAAAAAAAAABAAABAAABAAABAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAABAAABAQACAAACAQACAQACAQADAgEDAgIDAQEDAQEDAQECAgECAQECAgEEAgIEAwICAQEA/wEA//8A//8BAP8BAAACAgECAgEDAgIDAwIDAgIDAgECAQACAAABAAAAAAABAQAAAAAAAQEB/wAA//8AAAACAAABAAABAP8AAAAAAAECAAD/AQAAAQD/AAAAAAAAAAACAP8CAP8BAAECAQD/AAABAgEABAMBAQH6/PwG+wEE/AD9AAABAAABAP//AAAAAAD+AAD/AP/+AAD/AAAAAAAA/wAAAAEAAAAAAAEAAQAAAAAAAAEAAAEAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAABAQECAgIBAQIAAAEAAAAAAAEAAAAAAAD//////wD///8AAAAAAAAAAAAAAAAAAAD//wABAf/////9//3///4AAAEA/gAA/gABAQICAgMEAgIBBQMCAQQAAAD9/Qn+/v/6+vz5+fr4+Pv19ff19fb29ff19fb19ff49/n5+fr9/vv+/v37/fz9/P4DAwQCAgQDAgQCAgQCAgQBAQIBAQIBAAL/AAAAAAEAAAABAAAAAQD//wAAAP8AAAAAAP8AAP8AAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAEAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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9/v/+/wD7/f0B/f77AP8A/f7///7/AAAA/gEAAgIAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAAAAAAAAAAAAAAAAAA/wABAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAA/wEAAAABAAAAAAABAP8B/wAAAAEAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQABAAAA//8A/v7///////7///8AAAABAAEBAQEAAQABAQABAAABAAABAAABAQAAAAAAAAAA/wAAAAD//wD////+/v8BAQEDAAECAQEFAgIGBAQFBQQFBAQGBQUFBAMEBAIEAwMBAQEAAQAAAP/+/v///v/+Av/9/f3+AgL9Av77AQP8Av0AAAD///8AAP8BAAABAAADAgEEAwMEAgIFAwMFAgIEAgIDAQADAQEBAQEAAAD/AAD/AP//AAAA/wAAAAAAAAD/AP8AAAAAAAAAAAAAAAD/AQAAAAD/AAD//wD/AAD/AAD/AP/+AAD/AAD8//79/v/9/v79///+/v/9/v/8///9AAD/AAH/AAAAAAAAAAABAAABAAD//wD/AAH//wEBAAD//wABAAABAAEB/wAAAAAA//8A//////8AAAABAQEAAAEBAAH/AAAA/wEAAQH+AQD+AP8AAAAAAP//AAAAAAAAAAAAAAAAAAAAAAAAAAEBAQACAgABAAABAQABAAAAAAABAAAAAAD/AAD/AAD//wAAAAD/////AAD/AAD//////////wAA//4A//4BAP4BAP8CAP//AAABAf8BAAACAf8CAf4CAQACAQEDAQEDAgAEAgEFAwEEAgEDAQAEAgADAQADAgADAf8CAP8BAP8AAQAAAAD/AAD+AQEBAAEB/wH/AQD/AAAAAAABAQAAAAD/AQD/AAD/AAD9AP/9/wD+AP/8///9AP79//79//7+//7/AAAAAf8AAQEAAQAAAgAAAAD+/v///wAAAP8AAP8B/wABAAAB/wEBAAEBAQABAAD+AQH+/wADAAID/wD/AQD/AAAAAAH/AQAAAQACAQAAAAABAP8A/wAAAP8AAP8AAAAAAAABAAAAAAAAAP8AAAAAAP8AAAABAAABAQABAQABAAAD/wEFAwIBAAQCAQEDAwMEA/37/f37A/z7/f39/v78/v78/f4AAP///v0B//8B//4AAAAAAQIAAAECAQEBAQEAAgIAAAAAAAD/AP//AAAAAAAAAQAAAQIAAQIAAAEAAAD//wEAAAAA//7//wD/AAAAAAAAAAAAAAABAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAD/AAAAAAAAAAAAAP8BAAIAAAABAAAAAQEAAAAAAAEAAQABAAAAAAAAAAAAAAD//wAAAAAAAAAAAAD/AAAAAAAA//8AAAEAAAABAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAEAAAAAAAABAAEBAQEAAAEAAAEAAAEBAf8BAAAAAP//AAD//////wAAAP8BAQEAAAABAQACAgACAgECAwEDAv8CAAL+Av8AAAMAAAMEBQYFBgIHCAMLCwX29vn29/n4+Pr6+fv7+vz8/P39/f38/P3////+/v7+/gD//gD//wD//wAA/wEAAAABAQIBAQIAAAIBAQEBAQIBAQABAQEAAAEBAQEAAAD//wAAAAAAAAD//wD//wAAAAD//wD//wAAAAAAAAAAAAABAQAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAEAAAEAAAEAAAEAAAAA/wEA/wECAQEBAQIAAAD8/QD8/fz5+vv6+vz7+/0BAwAEAQIDAwP+/wIAAAAAAAEAAQEBAQH/AAAAAAAAAf8AAP7//wD/AP4AAQL/AP//Af//AP//AP8BAQAB/wEB/wEA/wIAAAP///8A/wD/AP8AAP//AAEA/wD+AP8BAP///f0AAf3+//sEA/4EA/4EBP4F///9///9BAMF/wH/AAECAQEDAQACAQIBAAABAAAAAP///wAAAAD/AAD/AP4AAP8BAQECAQH/AAEAAAAAAAAAAAAAAAAAAAABAAAAAAABAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAA/wAAAAAAAAAAAAEAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAP///v////8AAAAAAQEBAQAAAAAAAAAAAAABAAD///8A/wAA/wAA//8AAAAAAAAAAAAAAQABAAAAAAIAAAEAAAD+AAD//wD+AAD9AAD+AAD+AAABAAADAAEAAAABAAABAAABAAABAAABAQABAAAAAAD/AAAAAAAAAQD/AAD/AAD/AAD/AAD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAABAAAAAAAA/wAA/wEAAAABAAIAAAAA/wIA/wEAAP8A/wAA/wAA/P7//P7++/3++fz8+vv7+fv8+vz8+vz8+/39+/7++/7+/gAA/v8A/gAAAAMCAgICAAICAAECAAIC/wEC//8BAP8AAAAAAAD///8B/wAAAAEAAAEBAQAAAQAAAAAA////////AAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAEAAQIBAAAAAAD/AAD+AP/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9/vz+/v3+/v3+//3+Af7/Av8BAAAAAQIBAf8BAf8BAQABAf8BAf4AAf//Af//AP/+/wABAAABAQAAAQABAQAAAQEBAAEAAAAAAAABAAAAAAAAAAAA/wAAAAAAAP////8A/wD//wAAAAAAAP//AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAEA/wAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEA/wAA///+/v8A/f7//QAA/v///gAA/wAAAQEAAAMAAQMBAgQCAwUCAwUCAgQCAQMBAQIBAAIAAAIAAAIAAAD/AAAA/wD/AAAAAAAAAQABAAAAAAAAAAAAAAABAAEAAAAAAAIAAP//AP8AAAAAAAAAAAABAAAAAAEBAAIBAAMCAAMCAQQEAgT+AQICAAEB/wH/AAEAAAAAAAAAAAAA/wAAAQAAAAAAAAAAAAAAAAAAAQAAAAAAAQAAAAAAAP8AAAAA/wAAAQAAAAAAAAEA/wAAAAAAAP8AAQAAAAAAAAAAAAAA/wEAAf8AAAAAAAAAAAAA/wAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAABAAAAAP8AAAAAAP8AAAAAAAAAAAAAAP8AAAAAAAAAAAABAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAP///wAAAQAAAAEAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAAAAP8AAAEAAAD//////v4B/gAAAwIBAQMCAQQEAQUFAgQDAgICAAMCAAEAAAIAAAAAAP7/AP8AAP//AAEAAAAAAAEBAAEBAAAAAAAAAAAAAAAAAAD//wD/AP8A//////////////////////7+/v/+/v7+/////v7+/wAAAAAA/wD//wH//wH/AAMAAQMBAwMCAwEBAQICAgIBAQEBAgH/AAAAAf//AP8AAP4AAP4AAP0A//z//v3+/v3//fz//vz//v3///7+/v3///39/v39/f7+/v8A//8AAAD/AAAAAQEAAQEAAAEAAAAAAQIAAQMAAAEBAQEAAQAAAAECAQD/AAD///4AAP4AAAP//wH//gAA//0A//4AAP8AAAIBAAECAAMAAAMAAQMAAQQCAgQBAwUCAwMBAgQBAgMCAgMAAAMBAAIBAQIAAAEAAP//AP//AP7/AP8AAP8BAP8BAP4AAP8AAPwA//3+//z///z//vz+/wP//vv//gH//v0A//4A//4A/wAAAP8AAAAAAAAAAf8AAQEAAAAAAQAAAQAAAQAAAAEAAAEBAQIBAQIBAgMCAgQDAgMBAQICAAMBAAMCAQMBAQMCAQICAQMCAQIBAQEBAQICAgEBAQEBAQEBAAAA/wAAAP8AAP7+//7///z9/vz9/f39/v3///7+//8AAAAAAQAAAAAAAQEBAQEBAQAAAAAAAP////7+/v7+/v7+/v7+/v7+/v7//v7///4A/wAAAP8AAP8AAAAAAAEAAAAAAP8AAAD/AAAA/wD//////wAAAAAAAP8AAAEBAQEBAQAAAQABAgABAQACAP8BAf8BAQEBAQEAAf8B/wEAAQIBAQEAAP8AAP4AAAIAAAEAAP8AAAABAv8AAAD//wD+/v8A//8AAAAAAAABAQECAQEAAgIBAgEAAAIAAQEBAgECAf8BAQAAAAAAAP7//////wAAAAEAAAIBAQABAQAAAAEAAAIAAgACBAIAAgAAAAAAAAAAAAEBAAAAAAEBAQAAAQD+AAAA//8A/wAAAQAAAAAAAAABAQIBAQAAAAAAAAEBAQMDAgMAAwQBAf0CAv4EBP7+/v8A//8AAAAAAAAAAAABAQABAf8AAAAAAP//Af8AAP7///4AAP3/AP3+/vv7Avv8AgH8/QD//f//AAH/AP4AAP8AAAAAAAEAAAEAAAEAAAEAAAAAAAAAAAEAAAEAAAEAAP8AAAAAAQAAAQAAAQAAAAAA/wAAAAAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAAAAAQAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQEAAQEC//8B/wECAAL/AQD/AAAAAAAAAAEBAAAA/v//Af7+AAAA/gEB/wQEAgEAAQMDAgIDAQEBAAAA/v////3+/f7+/f7+/v///v///wEAAAEBAQICAgAAAAEBAQEBAQICAAH/AAkJBhMTEAsLCvf2+fb2+vb1+fX09gUF9/b2+fkC/AAA+/79Af4BAgD/AQEBAQEBAQEAAgD/AP8A/v7+AP///wAA/gAA/wAAAQAAAgAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAQAAAAAAAAAA/wAAAP///v7/AAAA/gAAAAEDAQAB//z9/Pn5//z8/P39/v//AP//AP//AAAAAAD/AAD/AAABAAAAAP//AAAA/wD//wAAAQEAAQAAAgICAgAAAgACAwAAAAAAAf//AQAAAAAAAP////8AAP0AAAD/AAH/AAEBAAAAAAEBAAAA///+/wD//gEA/wEBAQIBAgAAAAEBAAD/////AAD//vz//wH//vwAAP7///3+/v7+///+AP7/AP8FBP//AwAAAAQBAQQCAQABAAEAAAIAAAAAAP4AAAEAAAIAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAEA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AP/+//79/v78/v78/P39/f7+/v79/f0A/wAAAAIAAAH/AgL/AgEAAwECAAQCAgMBAgL/AAAAAAAAAAABAAABAAABAAABAAABAAACAAABAAD/AAABAAD/AAABAAA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//wD/AP/+AP///wAAAAAAAP/+AAABAAAAAAAAAAAAAAABAAABAAABAAABAP8BAP8AAAAAAAAAAAAAAAABAQEBAQEAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAD//wD/AQAAAAABAAAAAQEAAAABAAABAP8B//8AAf8BAAACAAACAAEDAQEDAgEDAAADAQAB//4A+/0AAAAA9fX88PD16+vu9PP1+Pb5/fz/AwMEBQQEAQEB/v4A+/v8/fz+Avz9AwL8AwMEBAQEAwMCAgIBAQEA/wD+/f78+/wA/f37/f38/v78AAD/AAAAAAH/AAAAAAAAAQH/AAD/AQEAAAEAAgEAAgIDBAQDAwMCBQUEBAQEBQUEAwMCBAQDAwQDBAQDBQQEBAUEBgYFBQUFBwgGCAcGBgcGBgYEBQUEAwMDAgICAgICAgIBAQEBAQEAAQH+AQH//wD9//7//gD/AP//AAD+AAAAAf8AAf8A//8A/fz9/fz+AQABAQACAQAB//4A//7/AQABAQABAgABAQAA//8A//4AAAEAAP//AAEAAP8AAP8BAAABAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wEBAQAAAAAAAAABAAAAAAD/AP8A/wAA/wD///4AAP//AQD//QAAAgH9/f4C/v8D/f///QAA/gEA/QAA/gIC/gIB/wICBQEAAgAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAA/wAA/wAAAAAA/wAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAQAAAAEBAQIBAQAAAP//AP8AAAD/////////AAACAgH/AQcFAxAOCgMCBwH///79/Pz8+vv8+fP0Aff5/P//+v38+AADBgUFBQQIBv8BA/8CA/8CA/4AAf4AAQD/AQICAAEAAgAAAAAAAAD//wAAAAEA/wH//wEA/wEA/wH+AAEAAAH//wH/AAD//wD/AP/+AAD+AP//AP8A/wAAAAEEAQEEAgECA/8AAP8B/wABAAAAAQAAAP8AAQAAAf//AQAAAAAAAAAAAQAAAAAAAP8AAP8AAf8AAAAA/wAA//7+/v78+/v9+wD//gAA/wEA/gEBAAICAAIDAQEAAAIBAQEAAAEC/wAAAAEAAf4BAQICAAQDBQQDBQQDBAQDAgQDAQECAAEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD//////wAAAAEAAQMDAwsLCxITEw0OD/r7/ubp7QsL+A4ODg0MAf7+/wMDBAEB+vHx8eno6Orp6unp6erp6hwcHQ4NDREREQnwCQcHBvT19O3t7OXl5CT7JBESEQ0NDf3+/e/v7vDx8BMUEgUDBBEREBgZFwMDAuDh4OHg4Onn5Q0MCx8fHvv8++zr6tzb2wsJCAwKChASEhsYGRoZGfbz9AH+//Xw8QIBAf37+/Xz9Of/5/Xz8wsJCQgGBhEODxMRERcUFBIPENDPz+bh4vT09B4bHP/8/fr4+e3r7ODf3xgZGAoKCg8PDxcXFxYWFvP19dnZ2N3f3gABAA0ODgYHCObo6d3f3/39/B0fHC0uLQ4ODwICAwIDBAMDAgMDAv///w0NDgcHBxcXF/39/f39/dva2tra2erp6RIRERgXGP7//wUDAw8MDAUGBQwNDQ8PDxscHRUTEfj4+QD//vb19Pj39v37+wH//+7s7Nva2eHk5AIDBAkHBxETExocHBkbG9DR0uTj5Obo6BUUFB0cHAUHB/T08/Tz8/Tz8/Tz8/f4+A4MDSQiIwUGBvv6++bl5e7v7+Tm5wACAhMUFhMUFQwMBAD//wAA/wAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH/AAAAAAAAAQEAAQAAAAAAAAAAAAAAAQAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAEA/wH//wH//wAAAAIBAQQBAQMCAgUCAgUCAgQCAgQBAQQBAQIBAQIAAAMAAQMBAQQBAQQBAQQDAwUDAwQBAQQBAAQBAAQCAQMBAQMBAQAAAAEAAAEAAAAAAAAAAAAAAAEAAP8AAAAAAP//AAAAAAAAAAAAAAD/AAAAAAAAAAAAAAEAAAAAAAEAAQACAQAAAAAAAAAAAAEBAAAAAAEBAAAAAAAAAAEBAAAAAAAAAP8AAP8AAAAAAAAAAAAAAP8AAP8AAAD/AAAAAAEAAQEBAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAP//AAD/AAD/AAD/AAD/AP/+AAAAAAAAAAABAAABAAABAAABAAAAAAABAAAAAAAA/wAA/wAA//8A//4A//8A/wAA/gAA/wAA/wAAAAEAAAAAAAEAAAEAAQL/AQEAAAD/AAD/AAD/AQAAAAAAAAAAAAAAAAABAAAAAQAAAQAAAf8AAP8AAP8AAP8AAP8AAf8AAf4AAP8AAAAAAAAAAP8AAf8AAf4AAP4AAP0AAP3/AP7/AAAAAAABAAMAAgECAwICBAICAgICAwIBAgIBAgEBAgEBAAEAAAEAAAEAAAIAAAIAAAAAAAD//wD/AAAAAAAAAAAAAAAAAQAAAAAAAAAAAAEBAAABAAABAAAAAAAAAAAAAAAAAAAAAP//AP//AP8AAAAAAAEBAAAAAAAAAAEAAAEAAAABAQABAQL/AAAAAAEA/gAAAAAAAAAA/wAAAAAAAAEA/wAAAAAA/wAAAQAAAAABAAAAAAAAAP///wAAAAAAAQEAAAAA//8AAAAAAAAAAAAAAAAA/wAA/wAAAAAAAQEAAAAAAAAA/wAAAAEAAAAAAQEB/wAAAP8BAAAAAAAAAQAAAAAAAAAAAAEBAAAAAAAAAAAAAAAA/wAAAAAAAAAAAQAAAAEA/wAAAAQCAQEBA/8DAgAAAAABAQABAQEBAQAAAAEBAAAA/wEAAAAAAAAAAP8AAP8AAQAAAP8AAAAAAAAAAP8BAAABAQAAAAAAAAEAAAEAAAAAAAAAAAEAAAIAAAEAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAAAAAAAAAAAAAAABAAACAAABAAAAAAEAAAEAAAABAQABAgD//wAAAQAAAAEA/wA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AAAAAAAAAAAAAAAAAAAD/AAAAAAD/AAAAAAD/AAD/AAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEAAAABAQEBAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAAAA////AAAAAAAA////AAAAAAAAAAAAAAAA////AAAA////AAAAAAAAAAAA////AAAAAAAA////////////AAAAAAAA////////AAAA////AAAAAAAAAAAAAAAAAP8B/wAAAAAAAAAA/wAA//8AAAAAAAAAAP8A/wAA/wD///8A/wAAAAAAAP8AAAAAAP8AAAAAAAAAAP8AAAAAAAAAAAAAAgABAAACAQD////+/v//AP7/AP/+Af7+Af7+/v//Af3+AAAAAAABAgL7AQEB/wAA/wEBAQICBgMCAAIBAQICAAAAAAAAAQAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAEAAAEAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAD/AAAAAAAAAAAAAAAAAAAAAQAAAAD//wAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AP/+/v79/v8AAAEBAgMDAgEBAwEAAv8AAf8AAP8AAP8BAQADAwIEAQIDAgICAQEBAPz9APz+APX2/e7w9u/w9+Xo7uPl6+bn7fHz9vj7/wADBwUGBQYDBgIDBQIDBf7/Avv7/Pj4+vr7/gMFBgQFAgMDAQECAgQEBPz8/QIBAQH//wH//gAA/gAAAQAAAAAAAAAA/wAA/wAA/wAAAAAA/wAA/wAAAAAAAAAAAQAAAAAAAQAAAAAAAAEAAAAAAAAAAAD/AAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAA/wAAAAABAAAA/wAA/wAA/wAA/wAA/wAAAAAAAQAAAAAAAAAAAAAAAAAA/wAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAEAAf8BAAABAAD/AAAAAAAAAAAAAAEBAAEBAAECAAICAQICAQICAQEBAQEBAP8AAAAA/wAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAEBAQEBAQAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAP///////wAAAAAAAAAAAAAAAAAAAAEAAAEBAQD/AP8AAQD//wD/AQAAAQAAAAAAAAEBAQEAAQEAAgAAAQD/Af8AAP//////AP/+//7///79/v3+/v7+//79//7+AP79/v7+//39/fv7/Pv7/Pv7/fz8/Pz8/f//AAD/AP//////AP//AP7+/v39/v38/v//////////AAEAAQEBAQD/AP////8A//8AAQMDBQICA/8AAAAAAAACAf7+//r5+/7///v9/Pn6+gYHBgYHBgcIBQYGBgAABQICAAD/AAEAAQEAAQEAAQAAAAAAAAAAAAAAAAEA/wEAAAD//wD//v///gD//gD//gD//wAAAAAAAAABAAEAAAEAAAAA//4A/wEAAP7/AAD+/wAB/wICAgICAQQDAQQCAgUDAwYDAwcEBAYEBAYDAwYDAwUCAwQCAgMBAQIBAQAAAAAAAAAAAAAAAAAA/wD//wAAAAAAAAAAAAAAAAIBAQACAgH/AQIBAgMAAP4AAP4AAP8AAAABAQABAQABAQEBAgEAAQIAAAEAAAEAAAL/AAL/AAH/AAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAEAAAAAAAAAAAEAAP8AAAABAgICAQAAAAABAAABAAABAQABAQEBAAAAAAAAAAAAAAAAAAAAAAH+AAAAAP8AAAAAAAAAAP//AAAA/wAAAAMAAQADBAMB/wAAAAABAAEBAAEAAQAAAAEBAQEBAQABAAIBAQEBAQEBAQAAAQEAAQEAAQEAAAAAAAEAAQAAAAEA/wD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAEAAAEAAAAAAQEAAQEBAAAAAAAAAAAAAAAAAAAAAP8A/wAAAAAAAAAAAAAAAP8AAAAAAAAAAAAA//8AAAH/AAAAAAAAAAEA/wEAAQAAAQABAAAAAAAAAAAAAAD/AAAA/wAAAAD/AAAAAAABAQAAAAAAAAEAAAEAAAEAAAIAAP8AAP8A/wMAAAQBAAcDA/4EBfsA/fr//fv/AAD//v8A//4AAP8A/wD/AAD//wAA/wABAAAAAAAAAAAAAAABAAAAAAD/AAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAP8A/wAAAAAAAP8AAP4AAP8AAP8BAQAAAAAAAAAAAAEAAAABAP8BAQAAAAEAAAD/AP8AAP8AAf////8AAP4A//8A//8AAP8AAAMCAQADAQAAAQD+AP////8A/v///wD/AAABAP8BAQABAQABAQABAAEBAAEAAAAAAAAAAP8A/////////wD+/gD/AAEAAAIBAQIAAQIAAQIAAgAAAAAAAAAA/wAAAQAAAAD/AAAAAAAAAAD/AAD/AAAAAAAAAAAAAAAAAAD/AAD/AAEAAAIBAf8BAAIBAgICAgEBAQEBAQABAP////7+/wH/AAAA/////gAAAP/+AP8B/wEBAgEBAAAAAAAAAAAAAAEBAQABAAICAv///wICAwIC/wIC////AwD//QAA/wAAAP///wAAAP7+/gEBAQD//wD//wEAAAEAAAH+AQEBAQEBAAD//wD//wAA/wAAAAAA/wAAAAIAAP8AAQIAAAEAAAD//wD///8AAP3//wIBAPwA/wD/BP8D/gQABAAAAAEAAQH/AQEBAAIDAgEAAf/+//8CAP0C/f0C/gMC/v7/AP8AAP8AAAICAwIBhEMNGwAAIABJREFUAgIBAgEBAgEAAgEAAQEAAQEAAQAAAAAAAAD////+/v7/AAQCAwQICQD+/v39/f78/Pz9/f/8/f36+v8BAgEDAv4B/vj6+/j09AD/AAIAAAEAAA0MDAMPDggFBPDt7enp6Ofn5ePj4+Pi4gQDAxIRERMZGQoJCQoKCgQDA/Tz8/Tz9Pz7+wEAAAEAAAEAAQAAAAAAAAABAQEBAvr6+/T09PTz9O/s7Pz6+vDv7xYYGBcXGQoLCvf4+fb4+Pr49/b19Pv9/RASERETEgwNDf4AAf3/Afz9/f78/fv7+gMEAwQFAwQEAwAAAP39/gAA////////AAEBAgUFBQEBAQMCAwQCA/v7+/3+/f39/fz//wD+//38/QYGBgAGAAICAgADAAEBAQICAgD/AP///wAAAP8A//7+/gAAAAAA/wAAAAD//////wABAQABAf8AAQAAAQEBAQIBAQAAAAAAAAAAAQEBAQAAAf4DAwQDBP8E///+/wD/AAEAAf////7+/gAAAP////7+/v39/QD/AAD/AAEAAQEAAQEAAf4B/gEBAQEAAQMCA/8B/wEBAf7+/v/+/wD/AAEAAQQDBAYFBgAAAP39/f7+/gEAAf38/fn3+f78/v38/QQEBAIDAwICAgICAv8AAQAAAAECAQABAf7//wD////+//7+/vz8/P38/AD//wEBAQEAAQIBAQMDAwIBAQAAAQA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+/wD/AAD//wEBAgABAgIAAgIAAQEBAwECAQP//v///v78//79/P/6/PsBAgMEBvoDA/r8/QH+/wEBAgICAQAEAwADAAEAAAABAAD//wD/AAD//wAAAP8BAP4A//4AAP8AAP8AAP8AAP8AAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACYf2eAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEA/wH/AAD//wD/AAD/AAABAQD+AAD9/wD7/f/x9Prx9fnm6fHo6vHr7fHy8/f5+/8AAgYAAgYBBAcBAwb+/QD+/gD/AAD/AAH/AAEAAAD/AAAA/wAA//8AAP0AAAH//wAAAQEDAwQCAgP/AAABAQIBAQIBAQL9/f35+fkA/wD+//4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/////////AP7/AP4AAAABAQABAQABAQABAQAAAAABAQABAQABAQACAwEBAgIDAwEHBwYIBwcKCggKCwgKCwgQEQ0MDQkICAUEAwH+/v3/AAD9/f39/v0AAP4CAwEEAQMCAgEBAQAAAAAAAAAAAP8AAP8CAgH/AwAAAf/+//4BAQIICQIHBgUBAAj8/Qv8+/sAAP78/Pr+/vwAAAD+/vz///4AAf4AAf4AAP4EAwIGBgUGBQUFBgUDAwH9/v/8/P0AAAADAQEBAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD//////////wAAAAABAQD//wEAAAAAAAAAAAAAAAAAAAAAAAAAAP////8AAAD/////AAAAAQABAAECAgL/AQAAAQAAAgAAAAAAAAAAAAAAAAAAAAABAQEBAQABAQACAgICAgIDAwMCAwIDAwECAgMDAwICAgMCAgEBAQEBAQABAQAAAP////4AAAAAAAD/AP8AAAAAAAAA//8AAAAAAAAAAAAAAAAAAP8AAAAAAAABAQAAAAABAQAAAAEAAAEC/wAFBgQH/gb+//78/fwA+wAEBQMICAUJCQcEBQMBAf/+//39/v3+/v0AAAADAwIEBAMBAgEBAQD//////////////wD//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8A/wABAAABAP8AAP8AAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD+AQAAAAABAAABAP8AAAEAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAP//AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAA/wAAAAAAAAAA/wD//v/+//4A/wAC/wIBAQD/AgIA/wIBAQMDAwQDAgQA/wMA/wL8/P718vfx8vfu7vLs7O/s6+/09Pb//AEJBQsGAwYEAAYB/gP+////AP///wEB/wMDAAACAgIEAQQBA/8A/QL59/vx7/MFBOv//P4ODgkODwoKCgYAAP8LCAYBAAEEAQMB/gAAAQABAP8BAAAAAAAAAAAAAP8AAAAAAAAAAP8AAP8AAf8AAAAAAP8AAP8AAAAAAP8AAAAAAAAAAAABAQEBAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAD/AP8AAAD/AAAAAAAAAQD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAA/wAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAD/AAD/AAD/AAD/AAAAAAD/AAD/AAD/AAD/AAAAAAAAAAAAAAAAAAAAAP8AAP8AAAABAAABAAAA//7//fv9+v4DAQEDAQECAgICBQUGAP/9+vv9+vv7+Pf58fPu+/v+/Pz9+/r8+/v8+/r7+/r6+vkG/wATDA4SDg0CAgECAwEFBAMKCAoLCAkNDQ0PDw8PDQ4KCAkEBAMBAAABAQEAAgIAAP7+/gH/AAD7+vv6/vj9/Pzz8fLz8vL08/P29vb29fYHBgYMCw0NDAwNDQ0NDg0HCAf8/Pz8+/wBAgL9AAAFAAAFAgEE/wIDAQABAgIEBAP/AP8CAQD//v4CAAAFAwEDAgMBAgECAP///v39/v39/v4C//4LBwcAEBH/HP0LBwkbGBn2+fn2+fj+///29fXg3t4JCQkICAoICAgDAgMEAwMMCwv9/Pz9/P0B/wD39vfs6+7i4OTi4OPl4+UCAQEtKywaGRgnEfso6wAAIABJREFUJCMaGBb+/v39/f39/v0AAP7//fz+//0A//4CAAAB/////v3+/Pv+Af8BAf8A//4EAwIIBwYBAQACAgH9/P0BAAD+/Pv7APz9+/v8+vv+AAEAAv3/Av3//v///f/9/P37BPv7BQUCAQH////////+///+///+//8BAQAEAwP/AAD//wEAAAH//wD//wD//wADAQEAAP/+/v4AAAAAAAAA//8A//8A//8AA/8BAAABAAABAAABAAEA/wAAAAAAAAAAAP8A//8AAAD//gH/AAH///8CAQEEAwQCAgIAAAD+/v37+//9/P3////5+fn8+/oAAP8GBgQLDAv9/v7+/v/7/P0BAAABAAADAgIA///5+PgD//8B/v7/BQQA//4BBAECAAMCAQIBAQH/AQD8//z/+/z+/wD+/v//AQECAAIBAf8AAQH/AAEAAAAAAP4DAwL/AQD+//35+fgAAgL9////AAAHBgYRDg4CAgIICAcNDQz19/f7/f77/P0BAwICBAMDBAQB/v759vb8+vr18vHr6AP///3+/vz9/fwHBwYICQcHBwgHBwcHBwcFBQYFAwQEBAQGBQcGBgcGBQYGBQYFBQYBAQEB//4DAQEEAQH8AQECAAAAAAD/AQAA//77+vn9/fwFBgYFBQcGBgcDBAQDBAMBAwP/AAD/AAD/AAAA/wAAAP/+AgICBQQEAQAGAQD+AQABAgECAgIDAQMCAgL9/f34+Pj////9/f0FBQUCAgIBAQEDAwMFBQUBAQH8/Pz7+/v+/v78/Pz///////8AAAACAgIAAAAAAAAAAAAAAAAAAAAAAAABAQEBAQH///8DAwMAAAD+/v79/f3////////+/v7////+/v7+/v7////8/f38/f0AAQECAwID///+////AAAAAAABAAABAQEAAAAAAQEBAAAAAAAAAAAAAAD///////////////////8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQABAQABAQH/AAAA/wD/AAAAAP8A//8AAAAAAAAAAAD/Af8B/wEAAgAAAAABAAEAAQICAv8A/wIAAAD+/wAB//8A//8A/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAA/v8A/P4AAgAB/wIEAQQGAAD//vz9/f0A8/T46uvvBQUDFhMMBQQMPkAUcQAAIABJREFUAwQEAP8AAP4AAgACAgIEAwIDAgEAAP8A//7/AQH/AAABAAAAAAAAAAD/AAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAQAAAQAAAQAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAA/wAA/wAAAAAAAAAA/wAAAAAA/wAAAAAAAAAAAAAAAQAAAAAAAAAAAQAAAQAAAQAAAAAAAAAAAAAAAP8AAP4AAP0AAPz/APv+APj6/ezu8d/i5enp7/3+AgEDBgQCBAL+BP7/A/r7/v37//8A/gEEAAMBAQEBAgEBAQAAAAAAAP8AAAEAAAAAAAAA/wAA/wAA/wAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAEA/wAAAAAAAAAAAAAAAAAA/wEA/wAA//8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8A//7+/f/++wcIAw0ODA8QCxUUFBEQDwwKCggHBAUEAgICAAMDAAICAAEA/////f39/gQDAgQEAwEAAv34+/v6+vv7+v39/P79/AECAQECAgECAfz8/Pv8/AMDAwgJCQgJCQECAgH+AP4BAAAA//7+/QD+/QAAAgAAAQABAQEAAQMCAgICAQICAQEBAf8AAP7/AP8AAAAAAAAAAP8AAAABAQAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAEBAQAAAAEBAf8AAP8AAAAAAAAAAAEAAAEAAAAAAAEAAAH//wAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAAMBAgIBAf/////+/v8AAAAAAAAAAAEBAQIBAQIDA/////////////3+/v79/f8AAAAAAAAAAAIBAQMDAgEBAfz8/P39/f39//////////b29vHw8PLy8gMDAA4NCgYFA/r5+fv6+gAAAAUFBQIEA//+//v9+wEBAQYHBAMDBQAAAf39/v7+/QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///////wAAAAAAAAAAAAAAAAAAAP///////wEBAQEBAQEBAQICAgAAAAAAAAEBAf7+/v7+/gABAAICAgICAv///vr6+/r6+gkIBggICAoLCwgIBwUFBQMDBAIBAgEBAQoJCBQQEBIPDurv7/by9ejn5tjY2NfY2CYmJSYmJREQEP79/fj39/z//wICAgIDAvz8/Pb29gQDBAEAAAwMCw8NDAoHBwUBAQQBAQUCAgMCAv////v7+/39/QYFBg8ODwQDAvn5+P///uTk5Nzc3AAAAf79AQ4MEPv7//b19fn4+AgGCxANDQYFCfr7/fr7+v38/v/+AAD/AP/+/v/9/f79/QD//gEBAAAB//v8+vf49g39CgUEAwwKCQsKCQkJB/z9+wkJBwkKCAcHBfr6+/r7/PPz8Ojo5u/v8AwMCAsKGgoKBQID+v7+9gIDAwD///z8/Pz8/Pb29v39/fr6+vr6+gD+/gUEAQoHBQMCAP38+/j4+Pj4+Pn4+f79/gQEBAsLCwoKCgsLCwgICP8AAff6+vj6+/8AAQcHBwsKC/gN+P8A/wMDA/n4+Pn5+ff39/r6+vz8/P79/f/9//79/f37/Pz8/P7+/gAAAQICAgQDAwUFBQMDAwICAgEBAQICAgICAgAAAAEBAQICAgAAAP39/f7+/gICAv7+/gICAv///////wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAQAAAQAAAP8AAAAAAQAAAQAAAgAAAAEAAAAA/wAAAAABAAAAAAD//QAAAAD//wD9/gECAAQDAggGBvr3+vLw8fPv7efj5Ofk5PTx8CMeGy8sKRwaGQ8ODfz6+AD+/wUEAwIGBvf4+Pv7+/79/QMDAwMDAwEBAQEBAQMDAwcHBwgICAMDA/z8/P39/QAAAPv7+/f39wUFBf///wMDAwAAAAEBAQICAgICAv7+/v39/fv7+/39/QsLCxkZGQICAg0NDQ4ODgYGBgUFBQICAvb29vf39/7+/gkJCQkJCQAAAP37/Pz+/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wEBAf///wAAAP///////wAAAP////////////7+/v///wAAAAICAgMDAwMDAwQEBAMDAwICAv39/f7+/v39/fn5+PP09Ofn59zc3OXl5Ts7Oy4uLicnJwsLCwsLCwICAv7+/v7+/gAAAP///////wAAAAAAAAICAgICAgQEBP39/f////7+/gAAAP////7+/v39/fr6+vv7+/z8/P7+/gEBAQQEBAUFBQQEBAQEBP////z8/P39/QICAgMDAwAAAAAAAAAAAAAAAAEBAQAAAAEBAQAAAP///wAAAP////7+/v7+/v7+/v///wAAAAEBAQICAgMDAwICAgICAgAAAP////7+/v39/QEBAQAAAAAAAAEBAQAAAAEBAf///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAAAAAIBAAAAAP7/AP8AAAAAAAAAAAD//wAAAAAAAQEBAAIBAQICAQICAQICAAIBAAEA/wD///7+/gAAAAAAAP39/fz8+/z7/AD+/gIBAAIBAQUDA/4FBP7//v7+AAIBAAH//wAA/wAAAAAAAP8AAf8AAQAAAAEA/wAAAAAAAQAAAf8AAQAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAD/AAAAAAAA/wAAAP8AAP////8A/v///v///v7+/v7+/v7///7+/gEBAf//AAD/AAEBAQICAQABAgMCAgMDA//+/v/+/Pv6/f39/AD+AAD/AAMDAwUEAwICAgEDAQIBA//+/v7//f/+/v/+AP3+Af//AAD9/f/+/gH//wIBAv8AAgIDAgUGBQAABeXl4+Dd3Ofq6v4CAf4BABMXFh0gIB4hIAcKCQcICAcJCAcHCAgHCQcGBwUGBgYFBgcFBggGBgYEBQD/AP/+AAD//wD7/Pf6/AMCAgMDBAkFBfv7+/r8/f///wYEBgYHBxUSESEeHfz6+PP49/T18+Xj+g8TEhr9+wQCBwMDAgMCAgMDAwIDAwICAwAB/gAAAP7+/v3+//3/AAIDAwQEBQMDBP8A/QD/AAEA/gIDAgIDAvv8+vf29ff19AD+/QD//QQDAgUFBQIEBAMEBPz9/f39/fn6/Pn6+/r8/gYICQYBAgMFBAAAAQIAA/4AAP////8A/wEBAQICA/////z9/P36/f7+/v///gAA/wP+AP7/AQMAAgAAAwAA/v//Av7/Af3+/wEBAAQEAwYHBfr6+wMCA/0B/wABAv8AAgMCBAQEBAQDBPz9/fz8/P39/f///v7+/gICAwAEAQECA/n6+vj4+P39/QsMCwwIBwUBAQEAAP8A/wH+/wEAAQIAAQECAgEBAf8AAgD/AAAAAP////8A//7//vz7/Pz8+wD/AAcICAgJB/////z6/Pv7+/7//QH+/gABAP79/f79/gEBAQMEAwQBBAMAAP8CAQIAAv7///7+/wD/AAEDAQICA/8AAAP//v///wQEBQUFBf8AAPn6+vHx8f///wgGBwcHBwEBAQQEBAQFBAAAAP////3//f///wAAAP///wEBAQEBAQEBAQAAAP///wD//wAAAP////////////8A//8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAAEBAP/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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD////9/f0CAgL///8BAQECAgIBAQECAgIDAwMEBAT8/Pz6+vr8/Pz39/f6+voBAQENDQ0ZGRkXFxcICAj+/v7///8BAQECAgL////9/f3+/v7+/v7+/v7+/v7+/v7+/v7+/v79/f38/Pz+/v7////8/Pz9/f3+/v7///8AAAAAAAACAgL///8DAwMFBQUFBQUGBgYGBgYFBQUBAQECAgL////+/v7+/v7///////////8CAgIBAQECAgIBAQEAAAAAAAAAAAAAAAD+/v78/fz7+/v6+/z6+vz7+/38/f7+/wD/AAABAQIBAQABAQEAAAAAAP///v7/AP//AQEAAQAAAQEAAP8AAAABAQAAAAAAAAD/AP8AAP8AAP8CAgACAAICAQEA//8CAQH9/Pz4+PcHBgX5+Pn6/v39/Pr49wMDAgABAP4AAf0CAwD//wb/BQUBAQADAwQDAwMEAwQAAAACAQL+/v/7+vz5BPn8+/38/Pz8+/7//wL8/QD9/gH/AAL//wIICAgIBwEBAQQBAwMBAgQAAf8B//8BAf3////+/f78/Pz///7+//0AAf8EAwMDBAMDAwEAAP4AAP75+PgBAAD9/v38+/r5+fgEBAQEAwQFBAUEAQEFAgP/AgABAAMDAgUCBAL+/v3/AQICAQABAgAAAAD+/wAA/gABAP///wAA/gEAAAAAAQEAAAH/AP7/AAD//wAAAAABAQABAAAAAQEAAAECAgD+/gICAv8CAQIBAAIAAP7//wD//v79/v4C/P0BAAIAAAAAAAABAQEAAAD///8AAP8AAP8AAAAAAAAAAAAAAAABAQEBAgIC/////wAAAAAAAAABAQEBAAAA////AP/+//7+/v3+/f0BAQEDAwMCAwMCAP8EAgIDAQD//v39/fwA//76+v37/Pz5+fkAAAD///////8AAAD+/wYFBAQAAAMBAf8AAAAAAQEBAQECAAEBAQD//wD//wAB//7//gAA/v8BAQIBAgIAAgIDAgEABAABAQL+/gD+/wD7+/z5+vsB+/39/P74+Pn+/wD+AP8AAQEBAwICAwIBAAH/AP8BAQABAAH9+/z59/gBAQkGBAUNDAwPDg0RDw/4+Pf6+fno6OgBBAgLDhMU+vz+/wEB/v8DAf8HBQMFAgf/CAb/AAAAAAD///7+/f7//v79/v39/v0AAAAEBAIDAwEDAQADAQACAAD/AAAAAQD/AP//AAD/AP8A//8A//8AAAABAQEAAAABAQACAQACAQEAAQEAAAAAAAD//wAAAf///wD+AP/+////AP8AAQAAAAAAAAEAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAQICAwEBAQECAgICAQMBAQIAAAAAAAAB/v/+/v/+/v7//wD//v/+/f77+vz6+/v39vf08/P08/Pz8/X08/T19ff+/gD+/gD+/f/+/v/9/f/9/f7+/f/+/v8CAQQBAgMDAgIDAgMEAwf//wL//gD+/v/+/QD9/v///wEAAAIBAAIAAAH///8A/wAAAAAAAAAAAP8AAP8AAP8AAP8AAAAAAP4AAAAAAAEAAAAAAAEAAAAAAAEAAAAAAAAAAAAAAAEA/wAAAAAAAP8AAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAQAAAAD/AP8A/v7///wCBP8BAf8FBQQKDAkRDQoREA0NDQYKCQAEAQABAQD+AAABAAAAAQABAAAAAP7///7/AAAAAAEBAAEAAAAAAAAAAAAAAAAAAAAAAAAE/wEBAAAAAAAAAAEA/v//+fv79Pf49Pf5+Pr6/Pz9AAT/AQIBAAECAQACAQEC//8B/v7//v79AQEBAQICAQECAAAAAP//AAD/AQAAAAAAAQAAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAEA/wEAAAAAAAD/AAAAAQD/AAAAAAAAAAD/AAD/AAD/AAD/AAD/AAD/AAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAQIBAQABAQEBAgIA/v7//////v79AAABAQEC/wEBAQIAAgIB//8BAP4A/f//AwMDBwgGCQsJBQYFAQEA/v7+AP8AAAABAAEAAAAA////AAAA////AQEBAAAAAQEBAAAAAAAAAQEBAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAQEBAwMD/////v7+/Pz8AQEBAQEBAwMDAwMDBQUFAQEBAAAAAAAA/v7+AgICAgICAgICAgICAQEB/////////v7+/f3+/f3+AgICAQECAwQEA/7/AwT9Av3+AAEA/v/+AP8A////AAEBAQICAwMEBAUE/fz9/Pz9/v7+AAAAAAACAQEAAQEBAQABAAEB/////v7+AP8AAgIB//8DAgICAQACAP8B/v/+//7/AAAAAwEDAgQCAwMDBAMEAgIB/v7++vr6/f38/v///wAA/wEB/wABAAEAAQEDAgIBAAEC/gAAAP//AAAAAP8AAAAAAQIBAgMDAQICAAEB/wAA/wAA//////////////8A/v8A/f7//P3+////AAABAQECAgMDAgMEAQIB/v7++/v7+/v7+/v8+/v8/v7+/wAAAAEB/v//Af7+/f7+Av7+AP39/wAAAwMEAgIDAwICAwMD/f39+/z8/fz8/P39/Pz9AAQBAAABAwQFAQAAAAEB/f7+/wAA/wAAAAIBAQICAgMCAAAA/////fz9AAMA/wEAAQEBAAAAAQIDAQAB/wAB/f3+AAECAAEBAwMEAAABAQAB/////Pz8/f3+/wD/AgEAAQIBAQAA/v7/AP/9AgEBAgECAf8AAAABAQEBAQAB/wAA//8AAAEBAQEBAgECAQEB////AAAAAAEBAQEBAP///////wAA////////AQEAAgMCBAEB/P39/fz8/P39//7+/wD/AwIDBAQEBQYG/////fz9/fz8//4AAAACAQEEAQD/AP//Af8BAAABAAACAAABAQACAf8CAAABAf8BAf8BAf8CAf8BAQAAAQD+Af8AAAAAAQD/AQAAAAAAAAAABgQFDQoLEhAP+/r29fXx/PwBAwEBAwEA/wEB/gIB//8BAP///gD//wAAAAEAAQEBAgEAAQIBAgMC/v0B/////f79/v4D////AQEAAQEBAgECAAH//wEAAQEA/f0CAQABAf8A/v7//v39AgEBAAD/AAACAAIBAgEBAQAAAQEBAgICAQECAAAB//8A/////v7+/v7+/v7+/v7+//7///7///8A/wAAAAEAAQABAAABAAACAAEBAAABAAAAAAD/AAEAAAAAAAMBAQADAgAAAAAAAAEA/wAAAP////7+AQEBAAEAAAEBAAABAQEBAQABAQEBAAAAAgICAgICAgICAQEBAAECAAH+/wAA/f///f//AP//AP8A/gAA/wEA/wABAAAAAAAAAAEAAAEBAAEBAAEBAAEBAAEBAAAAAAEBAAEAAAEAAQAAAQAAAf8A/wD/AAAAAAAAAAAAAAAAAAAAAQABAAECAAL/AgEBAgICAwEBAAAAAP8AAP///gD+/wD/AQICAQICAQEB/v///v39/f///f/+/QD//v4A/f8A/v//AAAAAAAAAAAAAAAAAAAAAAEAAAAAAQAAAQEBAAABAAAAAAABAP8BAQAAAgAAAgEA/wD/AP8A////AAAAAP8AAAH+AP8AAAABAP8BAP8BAQACAQABAQAAAP8AAP8A//8BAP8B//8BAP4BAP8AAQAAAP4A//8B//8CA/4CAfz///r9//3+/vr9//v/CAQHBAsPDQsMHxwfICQjJSQlJCAjIBwf/fv8/fv7//z+Av8A//7/AP4AAwECAwQFBAICAQAA//7+/wECAAH/AQAAAgEBAgEB/v//AP////39AgIEAwMBAgIDAQEBAAAA/v7+AAAA////AAAAAAAAAQECAgICAwMCAwMCAgICAgICAgICAQEBAQEBAAAA/wD/AAAAAAAAAQECAAEAAgICAQIBAgECAQIBAQABAAAA////AAAA////////AAAA////////////AAAAAAAAAAAAAQEBAQEBAQEBAQEBAQEBAQEBAQEBAAAA////AAAAAgICAwMDBAQEBQUFAwMDAQEBAAAAAAAA////////AAAAAAAAAAAAAQEBAAAAAAAAAQEBAAAAAQEBAQEBAQEBAAAA////////////AAAA////AQEBAwMDAAAAAQEBAgICAgICBAQE/f398vLy6urq9vb2AwMDDAwMDQ0NDQ0NCgoKAAAAAAAA/v7+/f39AQEBAAAAAgICAAAAAQEBAAAA////AAAA////AAAAAQEBAAAAAQEB/////////f39/f39/Pz8+vr6+vr6+/v7+/v7AAAAAwMDAgICBAQEBgYGBQUFBAQEAwMDAgICAAAA////AQEBAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAQEBAQEBAQEBAAAA////////////////////AAAAAAAAAAAAAQE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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///////////////////wAAAAEBAQEBAQAAAAAAAP///////wAAAAAAAAAAAAAAAAEBAf///wEBAQAAAAAAAAAAAAEBAQEBAQAAAAAAAAAAAP////////7+/gICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgUFBQcHBwEBAf////r6+gUFBQEBAQMDAwQEBAQEBPb29vT09Onp6fX19QAAAAgICAcHBwYGBgQEBP39/f39/QAAAAAAAgAAAAAAAAAAAAEBAQICAgAAAP39/QEBAf7+/vn5+fv7+wEgpf4tAAAgAElEQVQBAQMDAwICAvn5+fz8/P////7+/v39/QAAAAQEBAMDAwYGBgYGBgcHBwQEBAQEBAMDA/39/f7+/v7+/v7+/v///wEBAQICAgMDAwEBAQICAgAAAP7+/f7+/v8BAQICAgMCAf7//v38/Pv7+/v7+/v7+/7+/gAAAAEBAQAAAAICAgAAAP////7+/v//AP////8AAAEBAQECAgH/Af/+/v39/f39/QMDAwMCAv8AAf8AAAEA/v8AAAAA/wEAAAQEAwEBBAABAP///QICAQUGBgQEBPf29wECAP///vv9+vv6BPn4AwEBAQICAQMEAwQEBAEB/wIDAQP+Av8EAwUFBQcHBwkJ/P//AQD/AQIC+wEAAwEBAf39/vn5+f7+/////wEAAQEBAf3+/v7//gICAP3+/P39/f79/f/+//////8A//8A////AAAA/wAAAAMDAgYGBQMEAf39/QAAAAYFBvz9APz+/vr5+QQDBAIBAgH/AAL/AAD+/wMDAQQDAQIBAAD//wD/AAD/AP8A//8A/gEAAP8A/wEB/wEAAQEBAwEAAAAAAAAAAP//////Af//AAAAAAAAAQEBAQAAAgEBAgECAQH/AAEAAQID/gID/v7/AP7/AP8AAAD///3+/gH9/QMCAgADAwEBAAAAAAAAAAAAAAD//wAAAAABAQAAAAABAAAAAAEAAQABAQMAAAAAAP//////AP//AP8AAP8AAAD/AAIBAQQDAwABAQAAAP7+/gAAAAEBAQICAgUFBQgICP////7+/v39/f39/fv7+/z8/AAAAP///wAA/wABAAMEAwABAgQCAQEAAQD/AAABAAD/AQEAAAABAAEBAwIB/wACAAAAAQAAAf//AQAAAAD//wD/AQIAAgQDBQcGCP//AQIDBPr6+vn5+vv7/QID+wICAwEBAgAAAQAAAAUFBQQGAwMDBAcHCAAAAQIDAv78/vb09gkHCh4cHQsLDN3f4evr7urn6AICB/n4/BEUFRATFQ8REQYHBwsLBQIBA/r6/vn6/v/+/fz8+v37+wMEAwYEAwMEAgMDAwMDAv////3+/fz5+wUEBAQFBQMDA/3+/f39AP7///4A/////gAAAAAAAQEAAQL/AQL/AgIBAAEAAAABAAAA//4A//8B//0B/wD//wEA//4AAP8AAAAAAAAAAAAAAAAAAAEAAP8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAP8A/wD/AP4A/wD//gEAAAD/AAAAAP/+AAD/AAEAAQEBAQECAQADAAQDBAYFBQMCAgH/AAIAAQIAAgMCAwQDBff39/b29/sA/P//AP8AAAH9AP0B/wD+AAEC/wAA/wAA/v///v///v7+//39//38//79AP3+AAD/AQEBAwL/AAAAAQAA/wAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAgAA/wAAAAAA/wAAAAAA/wAAAAAA/wAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAQAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAA/gAA/v////8A/gIDAQsLCRQUEg8PDgUGB/v9AP8AAAEAAP4AAAAA/gAA/QAA/wMBAAIBAAH//gD///8AAAABAgEBAQABAAAAAAAAAAAAAAT/AAD/AAAAAAAAAAD9/v75+/v09/j2+Pr6+/z9/gAC/gABAAEAAAEAAQIBAgIA/wD+AP79/v4CAwMBAQECAgL+//8BAQH///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAQEBAQEBAQIBAQEAAAAAAP/////+/v4BAQD/AgAAAAABAAICAgIAAf8C/wH9/gADAwIGBgUICQcEBAEAAAD+/v7///8AAAAAAAAAAAD///8AAAAAAAD///8BAQEBAQEAAAAAAAAAAAABAQEBAQH///8AAAAAAAAAAAAAAAAAAAAAAAAAAAABAQH////8/PwAAAAGBgYBAQEEBAQAAAD////6+vr+/v7+/v4AAAABAQEAAAD////////6+vr7+/v8/PwEBAQDBAUAAAD9/f35+fkEBAQFBgUCAgP/9vb6+vr9/f0EBAQFBgYBAQH+/v79/f3///8A/wAA/wD/AAD///8AAQADAgMFBQX5+fn5+fr7+/sEBAQFBQUEBAQCAgIAAAD9/f36+vr5+voJCAkGBwYGBgYCAQIBAQH8/Pz4+fn09PQEBAQFBAQFBQUBAv8DAAEAAQEBAQIBAv/+//79/v////4AAAAA/wABAAAAAQEBAQEAAQL/AAH+/wD8/f79/f3+/v4CAgEBAQH+/v78/P39/f0HBwcHBwcFBQUEBAUGBgf6+vr19fX29vb///8AAAACAgIFBQUDAwMAAAD8/Pz7+/wCAv7+/v8DA/4DAwMDAwMCAwQEBQUGBwYB+/v8+/sAAAD8/Pz8/PwCAgIHBwcICAgAAAD9/f39/f39/f39/f3+/v4EBAUEBAT+/v/6+vr5+fkDAwMFBQYFBQUBAQIHBwf+/gD7+/v49vn//wABAQEBAQIABQADAwMBAgIAAQH/AAD//wABAAAAAAD////////+/v7///////8DA/4BAgIEBAQBAAEAAAEBAQIBAQIDAgMDAgP/A/8BAAH///8AAAAAAAD///8BAQH+/v79/f38/PwBAQEBAQMCAgL9/f38/Pz9/f0FBQUDAwMDBAMCAwIBAQH9/f35+vr39/cLCwoIBQcFBQL7/fn8/f///wAAAP8AAAAB/wEB/wEB/wEAAAAAAAEB/wEB/wEBAAAB//8CAAIBAP4AAP8AAAABAQAAAAAAAAAHBgcQDw/4+BXu7uoGBQT///7+/f39/PsDAAMCAwECAgEBAQEB/v/8/gD+/f7+/v0BAgICAQEAAwEBAP8CAQAAAgIBAAD//v7+/v7//wIA/wAAAQAAAAAAAAAAAAAAAAAAAAD//////f7+AQEBAf7//wEAAAABAQECAgIBAQEBAQEBAQEAAAH+/v7+/v7+/v7+/v7+/f7+/f7+////AAAAAAAAAAIBAf8BAAABAAEBAQIAAQL/AAEAAAD/////AAEA/wABAgECAwECAQAA/v7//v3/////////AAAA/wAAAAABAQEDAQH/Af8BAAEAAAABAQEBAAAAAAAAAAD/AP/+AAD/Af8AAQEAAgIBAAAA//8AAAAB/wAAAAAAAAAAAAD/AAAAAAAAAgEAAQAAAQEAAAAAAQEAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQEBAQAEAwMEBAQFBAQBAAABAAD//v8C/wL9/v3/AQAAAQH+AQD//v78/Pz8/v3+AAD+AAD/AQH/AAH/AAIAAQAAAQEBAAEAAAABAAEBAQECAAEBAAABAgIA/wEB/wAAAAAA//8AAP8BAf8AAAAAAP8A/v8A/v4A/v////4A/wH/AgD/AgAA/gAA/gEA//4AAAEAAQAA/wEB/f8B/QAA/f8A/f8A/f8BAQECAQEEAgIGBAcHBAb6+fvw9O/w7vD//gADAQMIBwkSHxEpJyokIyQcHBwcGxwICAgAAAD++vwEAgQEAwQCAAH+//3+/vwEAgMHBQYHBQf8/Pz7+/v8/Pz7+/v8/PwAAAACAwMDAwMCAgICBAQCAgIBAAABAQEAAAD9/f7+/v7/AAD///7+//7/AP//AP8AAAAAAP8BAQABAQABAQAAAQEAAQEAAAAAAAAAAAEAAAEBAQIBAQAAAAADBAQEBAQDAwP+/f39/P3///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEBAQEAAAD///8BAQECAgL///////8BAQH9/f0CAgL///8AAAABAQEBAQEBAQEAAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAABAQEBAQH///8AAAAAAAEBAQEAAAH9/f3////+/v7+/v7///8DAwMDAwMDAwMAAAAAAAACAgIDAwMDAwP8/Pzz8/Pr6+sJCQkKCgoREREODg4MDAwHBwf9/f38/PwAAAAAAAABAQEFBQUICAgBAQH8/Pz9/f39/f3+/v7+/v4DAwMDAwMCAgIAAAD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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAECAQEDAwIBAQIC/P0BAAEBAP///wAAAAAA//8A/wAAAAD////+/v/+/f79/Pz7+vz8+/v9/P3+/f4A/wEDAgQAAAABAAIBAAIAAAEA/wH9/f7//wD//wAA/gAA/wAA/wEBAAIBAQEBAQICAgAAAQD/AAAA/wD//wEA/wIA/wABAAEA/wD//gD9////AP//AP4AAAACAwACAgADAwIDAwMDAwL+/wX/AP3///z///3///0DAwEEAwMCAQICAAEC/wEB/wAB/wAA/wAB/wAAAAAAAAAAAQAAAP8A/wAAAAAAAAAAAAEAAAAAAP8AAAAAAAAAAAAAAAEAAAAAAP8AAAAAAAAAAP8AAP8AAP8AAP//AAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAECAgEAAAD/AP////7+/v8AAAAAAAABAAABAgIDAgIBAgECAgIAAAD///8AAP/9/f37+vr8/Pz9/fr9/fr8+/j5+vT5+fT3+PT29/T29/Tu8PDv8fHz9vP6/vUABf0FBgIFCAUFCAcLDwgIDgcHDQUFCAQDCAIBBAAB/gAA/wEAAgEAAgEAAQIEBAYE/wMI/Ab9Cwn9+vv59vj38/b3CPb48/j4Afj79vv8/v7+/PoC/wMB/gEA/wIBAgMGBggBAQIGBgYDAwMBAAEAAAAAAAAA/wAA/wD//////////////wABAAEBAQACAgEBAQICAgL//wL/AgICAgICAQIBAAEBAP8A/wAAAP//AAAAAAD//wAAAAD/AAD/AAD/AAAAAAAAAAABAAEAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAABAAAAAAAA/wAAAP8A//////8A/v8A/v8A/f8AAP8A/v8B//8CAAAC//8CAAD/AAAAAAADAP8CAP8B//8B/v4A/v4AAP8BAQEAAQEBAgABAAD/AAAAAAAAAAABAAAAAAAAAAAA/wABAAABAAAC/wECAAACAAACAAACAAECAAAAAAAAAAABAP/9AP8A//8A//8A//////7/AAD+AAAB/v8A/v8A/v///v7//v8A/v8A//8AAAAAAAD////////////+/v7//v4AAQEAAgEB//8A//8A//8A/wAA/wAA/wABAAECAQACAQECAAEA/wAA/v///f3//v4A//8EAgMEBQMIBwYHBwcHBwUFBgYGBwX29fX08/P29PX+//7+/P/4+fnz9fXv8PAQDxETEvn9/v74+fn29PX6+PoB/wEA/wEHBQgLCQoKCQv5+Pny8vTt7e3i5OPi5OMAAAAMDQ0OEA//AQAEBgYLDAwB//4A//3/AQH/AQH/AQH8/v79+vj4/PkC+AMDAgMFBAUJBwkIBwn+//37/Pv4+fj+AP//AAD/////AP7+//4AAP8DBQMJBgoFBgQDBQQBAwIAAwEAAgH/AQH/AQEAAQD6+/r19fX19fX4+Pj59/gCAgIBAQEJCQkEAwQAAQAAAQD+/////wAAAAABAQEBAgEB/wH////9/f0BAQAA/wQCAgIAAAD+AP///wH///7///78/Pz8/Pz7+/v9/f3+/v4AAAACAgICAgIFBQUGBgYGBgYEBAQEBAQCAgIAAAD+/v4AAAD///////8AAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAD///8AAAAAAAD///////////////8AAAABAQH+/v////8BAf7+/v7+/v74+Pjt7e3i4uLy8vIHBwcZGRkWFhYTExMODg729vb29vb//wAEBAUCAgL+/v79/f39/f37+/v6+vr7+/v6+vr7+/v9/f39/f3///8CAgIBAQECAgIFBQUFBQUGBgYGBgYGBgYEBAQEBAQDAwMCAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAD///////8AAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD////9/f78/Pz////+/v4CAgL6+vr8/Pz+/v4CAgIEBAQEBAQDAwMCAgIBAQH////+/v7+/v7////////+/v7+/v7+/v7///8AAAABAQEBAQECAgIBAQECAgICAgIBAQEBAQEAAAAAAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAD5+fnx8fHt7e34+PgGBgYICAgNDQ0ODg4KCgr8/Pz8/PwAAAABAQEAAAD////9/f0AAAAAAAABAQEBAQEAAAAAAAD///////////////8AAAABAQEBAQECAgICAgICAgICAgICAgICAgICAgIBAQEAAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAD///8AAAD///////8AAAAAAAAAAAABAQEBAQECAgIBAQEAAAD////////+/v7+/v79/f79/f39/f4BAgECAgIBAQH/AAAAAAAAAAACAgICAgIDAwMFBQUGBgb////+/v4BAQH+/v79/f0AAAD///////8BAQABAQABAQAAAP8AAP////7//v7+/v4CAgL///////8AAP8BAQAAAAAAAAAAAAD///8AAAAAAAAAAAEBAAABAAAAAAEAAQEBAAEBAAEB/wEAAQAAAAD/AP8AAQABAAEBAAEBAgAB/wAAAAAAAP8AAP4AAAAAAAAAAAAAAAAAAAAAAP4BAf8CAgAA/wAA/wAAAAACAQACAQACAgACAgECAgECAgEBAQEBAAEAAAD/AP8A/wAA/wAAAAABAf8AAgAAAQEBAAABAP8BAf4A//8A//4AAAH//v7/AgIBAQEBAQEDAwEGBgT9/gf+/v3///4BAQD9/f38/fz///8EBAQEAwMDAwECAwAAAf8AAP4AAAAAAAAAAAD//wEAAAD///8AAAAA//8AAQABAAABAQABAQEBAf8AAAAAAAAAAP8AAP8BAf8AAQACAQEDAAICAgEAAQEAAQEAAAEAAAAAAAAAAAAAAP8A////AP///////wAAAAABAP4A//8AAP8AAAABAQEAAQABAQD/AQAAAQEAAQEBAQEAAAAAAAAA/wD/AP8AAAAA/wAA/wD/AAD//////////wAAAAAAAP//AP8CAAD+/wAB//4BAP4BAP8BAP8BAP8AAAAAAAAAAAAAAAEAAAD/AAEAAAAAAAAAAAAAAAABAAD/AP8AAAEAAAAAAAEAAAAAAf8AAAAA/wAAAP////8AAAAAAP8AAP4AAP8BAf4CAgEBAQIDAQP/AwH//wMA//8AAP8BAQACAQABAQEBAQABAP7///8AAP8AAAD//wAAAAAAAAAAAAAAAAAAAAAAAAABAAEAAQIBAQEBAQEAAAL/AP7//wL+/v///v/+/v7////////+/v/9/f8BAQD//gAA/wABAAEAAAEAAAD/AAEAAAD/AAD/AAH/AAECAgICAwMEBQUBAQEBAAAAAAD+//wA/v7+/v7/APwAAP4CAgENDAsJCQjs6uoDAQH19vft7Ovi4eEV+PgBAwMLCgkD+/wB+fz6/f4CAQEAAP///v7+/f39/f3+/v4A/v8BAAAAAAD/AP8AAAAAAAAAAAAAAAEAAAAAAQAAAAAA/wAAAf8AAAAAAAAAAAAAAAAAAAAA/wAAAAEAAAABAAIAAAMAAAIAAAL//wIA/gD+AQAAAP//AAH//wAA/wAAAQECAgH//wIAAP8AAP8BAQABAP8AAP7//wD+////AP4AAf4CA/8DBP8EBQEGBQIAAAEAAAEEBQIBAQEEBAQDAwIEBQMHBwX09Pb09Pb39/r+/f/9/AAAAAEAAP38/PkAAQEBAQICAQL//wD//gD/AP7//wAAAP8CAf8BAQIBAQIAAAABAQEAAAEBAQAAAQAAAAAAAAAAAAAAAP8AAAAAAAEBAQEAAQD/AAD////+/v4AAP4BAf8BAQABAQAAAP////4A///9/v4DAwIKCggEBAIODQwMDAsKCgkFBgYBAgIBAQH/AQABAP8AAQAA/wD/AAABAQECAwEC//8B/v4A/wD////+/gD9/v/+//8AAAAAAAAAAAAAAAAAAAEAAAH/AAEAAAAAAAD/AAD/AAAAAAAAAQAE+vr6AAAAAAL+AQED+/3//f3/AAEBAQAB/wAB/v8BAAAAAgIBAP8BAQEB/wAAAP8AAAABAQEAAAAB//8A//8AAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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+//7+AP8AAAAAAQEAAgEBAgEAAQAAAAD+///+///+//7/AP8BAAIBAgL+/f359/j7+vvr6uro6Ojn5+ft7e329/cFBAQSEhIiIiIYGBcTExIQDg/6+/r5+vn8/fz///8AAAAAAAAAAAAAAAAAAAAAAAABAQECAgIEBAP8/AD////6+voAAAD+/v4AAAABAQEBAQEBAQEBAQEAAAD9/f38/Pz8/PwDAwMDAwMDAwMAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAD///////8BAQEAAAAAAAAAAAAAAAABAQEBAQEAAAD///8AAP8AAP/+/gD+/v79/f38/Pz7+/v8/Pz9/f39/f3+/v7+/v4AAAABAQEBAQEEBAQDAwMEBAQEBAQDAwMDAwP///////////////////////////8AAAABAQEAAAAAAAAAAAAAAAD///8AAAAAAAD///8AAAD/AAAAAAAAAP8AAP8AAP8BAP8AAP8AAP8AAAAA//8A//8BAP8BAP8BAP8B//8B//8BAP8BAP8BAP8B//8AAP8AAP8BAP8BAAAAAAD//wD//v////8CAgEBAgIAAQIAAAIAAAL//wD9///+/gD+/wH+AAL/AgEBAAICAQL/AAD9/gD7/P/8/fr8/fn5+/zo6evo6erj5ebd397c3t729vYBAQACAgEDBQUJCwsKCwkEBQMCAwILCgoYFxgZGRgaGxsTExQLDAz19fb7/Pz9/v8C///+//8BAQEEAwMBBQUAAAD9/v4A/PwCAgIFAgICAwIDAwIEBAMCAgH///8CAQICAQH//v7//v8BAQADAwMDAgICAAEBAAD///8A//////////8AAAAAAAABAQEAAAAAAAAAAAD////////9/f39/f39/f39/f3+/v7////////9/f39/f39/f3///8AAAAAAAACAgIAAAABAQEAAAAAAAAAAAAAAAAAAAABAQECAgICAgICAgIBAQEBAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAABAQEAAAD////+/v7///////8AAAACAgIFBQUFBQUGBgYFBQUDAwMBAQEBAQEAAAD///////8AAAD///////8AAAABAQEAAAABAQEBAQEAAAABAQEAAAABAQEAAAABAQEAAAAAAAABAQEAAAD////+/v79/f0BAQH+/v7+/v79/f3+/v79/f0CAgL+/v7+/v7+/v7////////9/f38/Pz9/f3+/v4AAAAAAAAAAAABAQEBAQEBAQEBAQEBAQEBAQEAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAAD/AAAAAAD/AAD/AAAAAAEBAQABAQEBAQEBAQEBAQEBAQEBAQIBAQIAAAD///8AAAAAAAABAQEAAAAAAAAAAAABAQEBAQH/AP8AAQAA/wAAAAAAAAAAAAAAAAAAAAAAAAEBAQACAgIEAwT9BP7+/v8AAAAAAAEBAQL9/f34+Pn//wAAAAEBAQECAwMBAgIBAP8B/wICAgL//v/+AAH///8A/wD//v8AAQAAAf8BAAABAQEBAgIA//8AAAAAAAD/AAAAAAAAAAD/AAD/AAD/AAD/AAD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAD/AQAAAAAAAAAAAAAA/wAAAAEAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAEBAgECAQD//P3++/77+/oEBAQBAQABAQIAAP8AAQABAP8BAAABAP8BAAACAAAC/wAB//4A/f0DAAIHCQgDBgbw7u4HBAT//Pzz8PHo5ecGBggMDxANDxAFAgL7AP///f0A/f4B/v8CAP8DAQEEAgMA//79AP/+AP8AAP8BAQEBAQH/AQAAAQAAAQAA/wD/AAAAAP8AAAAAAP8AAAAAAAD/AQEAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAD+/v/8/f39/v4BAwIBAwMCAQEBAQECAgEAAQIAAP////7///3+/v7/AP4AAP8AAAAAAAACAgAAAQECAgEBAQIBAgEAAP7+//7+//0BAv8EBAIAAP/9/fv+/v0AAAAAAAEAAAECAgECAgMCAgL/AAD+/v8CAgMCAgIAAAH+/v79/v/+////AAAAAAAAAAAAAAAAAAAAAQABAAAA/wEAAAD/AAAAAAAA////AAD//////////wD/AP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AQAAAQD/AAABAAD/AAD/AAD/AAD/AAD/AAD/AAD/AAD/AAAAAAD/AAAAAAD+AAD9/wD+AAD+/wAA/wEAAAEAAAH//v/+////AQEBAAECAQIAAAEBAAIAAQEAAAEBAAIAAQEAAAABAAAA/gD/AP8A////AP//AP7/AP/9///+/gD++vv6+vr6+vv6/f79/f78/P38+/v7+/z7+vv6+fv5+fr5+vv6+vr5+vv6+vv6+/r7+/z7/Pz8/fz8/v78/v79/v38+/75BQgABAcGAgMBAwMBAwMDBAQDAwMDAQMAAgMBAQIBAQEAAAEAAQIAAQMAAgMBAgMBAgMBAgMCAgMAAwMBAQIAAAEAAAEBAQP/AQL//wL9/AH9/f8AAP7//wD+AAD+/gD+/v/9/gD+/wH//gH+AAAA/gEAAQAAAQEAAP8B//4B/QD+/P/+/v///wAAAAABAQECAQICAAECAAACAQABAQABAQEAAgEAAAEA//8A/v8AAQH//wD+Af8AAP8AAf8B/wD+AAD+AAD9/f4A/v7//v7//v4B/v8C///9/wD9AAD9AAD9AAD9AAD+AAD+AP/+AP/+AQD/AAD/AQAAAgAAAgABAgACAwECAgEDAwEDAwEE/gAE/wH9AAL9AwL/BAIBBAMCAwICAwICAwIAAAIEAAEE/gH9AQH9/wH+AQP/AgP/AQL/AP////7+////AAAAAAAAAf8BAP4AAAABAAAAAAD//wH//wAA/wD//wEBAAH/AAL/AQEBAAD/AQD+AAAAAAH/AQAAAP8A/v8AAf8AAAAAAP8BAAAAAQAAAAAAAAABAAAA//8B/wAAAP//AAAAAAD/Af8BAAABAAAAAAABAAABAAAAAAD+AAABAQABAAAAAAABAgIBAgADAAMAAQACAQEBAQECAP////38/wAB/wAAAAAA//7/AwABAQMDBAIHCAUFAAD/AwMAAwIAAQEAAAD/AAD/AAEAAAAB/wAAAAAA/wD/////AP//AAAA/wD/AAD/AP8AAAAA/wAAAQEAAQH/AAAAAAAAAP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAAAAAAAAAAEBAQAAAQAAAQAA/wEAAAEBAAIDAAECAQAB/v7//v79Af3+AP3+AP3/AgACAwQCBAECAwUFAgUF/P/7+v399/n5/wICAQQEBQIBAAECAwUGAP7+/gIA/wAA/wAB/wAA/wAA//8A//8AAAH//wD//wAAAQABAP7/AAH/AAECAAIA/wEBAf8AjsZgPgAAIABJREFUAP8AAP///v///wAA/wEBAQECAQABAAAAAAD/AQEBAQEBAQICAQABAAAA//////8B//8BAAD/AAEB/wAA/wAA/wAAAAAA/gD//f/+/gD/BAUFAgYIAAAA/wD//v8A/vz9AAD+AAEBAAIBAQICAQECBAIDAgAA/v7+/f/+/v7//v79AAH9AAIBAgICAgICAQEAAwICAgYF/v0C/QIC/v39/gH9/v39AwMBAwIBAgMCAP///wQC//8CBP4E////AAYFBAADAwACBAUFBAQFCQoLCQgJCgcJAgIC+/r7/Pr7/Pz9/fz+/fz9AP8A//7///////8AAP8AAAAAAQECAQEB//7//v7//f39+fn4/Pn7/AD9AAQCBQQH/f39Af3+/f39//7+/v//AgEAAwUEBQQG//7//fz9/fz9/P/9Av78/////v3+/fz9/vz+/v/+AAIB//7+/v//AQABBAQEBAQEBQQEBQQFBAUE/f79/wD//f39AAEABAQDAwQC/gD+Af78AP8A/v///v/+AgICBQMGAQAB/v7+/f39AAD//v79+vr5+Pn39vb29/j3AwUDAwQDBQIFAAIAAAEAAAD++vz6+/3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AAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAEA/wAAAAAAAAAAAAAAAQAAAP8AAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAEAAAAAAQEAAf8AAP//AAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAEAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAP8AAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAEAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAP8AAAAAAAAAAP8B/wABAAAB/gAAAAAAAf8AAQAAAQAAAP8AAP8A//8AAP8AAAABAAAA/wABAAD/AP7+/vn9/fv+AAUCAgUCBAQBAvr9+/4B/gEEAgQHBAcKB/3+/P/+/v79/QAAAAD/AAEAAQIAAQEAAf/9//79/v/9/gIBAgICAgIBAQAAAAAAAAD//wAA/wAAAAAA/wAAAAAA/wAAAAAAAAABAAEBAQEAAQEBAQABAAACAAAAAQAAAQECAAQABAEAAQD//wEAAAEAAAECAQABAAEBAf8CAP4B/////f3+AQD+/QAAAP4A//////7+/v7//v7+/v7+/v7//////wD//wD/AAAAAAH/AAH/AAD/AAD/AQIAAQIAAgECAgMBAwMBAwMBAwMBAgIBAgIBAgIAAQEAAQH/AQH+AAEAAQMBAwD/APv7/PPz8+rr6wYFBwoJCgICAwMEAwQDBPz6++vq6+vp6+rp6unn6Onn6QYFBx8fIA0MDRwaGhwaGhMTEwwLDQEBAf39/f38/f7+/gICAQEBAgABAf8AAf8AAf4AAAEAAAEAAAEAAQEBAQEBAf8A/f7+/wICAQIDAwYHB/39/vz9/f/+/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQICAgAAAAEBAQEBAQEBAQAAAAAAAAAAAAAAAP7+/v///////wAAAP///wAAAAAAAAAAAAEBAQEBAQAAAAEBAQMDAwICAgEBAQAAAAICAgEBAQICAgEBAQEBAQAAAAAAAP////7+/v39/f39/fz8/Pz8/Pz8/Pz8/P39/fz8/Pz8+/v7+wAAAAAAAAAAAAEBAQICAgICAgQEBAQEBAUFBQQEBAUFBQICAgMDAwICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAEBAAMBAQMCAf78/vv8+/r6+QICAgIDAgIDAwQEBAQEBP8AAfz8/fv9/QAAAQACAgABAgECAgIDAwAAAAL7/QAB/AABAwADBAACBf/+/v4B//j5++3p6Ozv8Orr7Onn6ejn6ezw8u3x9P3+AAwOEBEUCAcICgoMDQoMDgMCAvHy8/Py8QYC/wUD/woHBhgjIBAOCg8PDxAPEBAQEQsLB/b19+jo6wcHCAYGBwoJCQUEAgsKB/7+/f79/ff39v39Bf/+BgEAAP79/QAAAAAAAAAAAAAAAAABAQEBAQEAAAEAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQABAAAA//7+/////v39/f39/f39/fz8/Pz8/Pz8/P39/fz8/P39/f39/f7+/v7+/gAAAAAAAAICAgICAgMDAwMDAwICAv///////////wAAAAAAAP7+/v7+/v7+/gAAAAAAAAEBAQICAgMDAwQEBAQEBAQEBAMDAwEBAQEBAQAAAP7+/gEBAQEBAAAAAAEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQICAgEBAf///wAAAP7+/v39/f39/f7+/v7+/gAAAAAAAAAAAAAAAP////7+/v39/QAAAP////39/f///wAAAAAAAAAAAAAAAAEBAQMDAwQEBAMDAwQEBAICAgEBAQEBAf////7+/v7+/v///wAAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQEBAf39/f7+/v///wMDAwAAAAAAAAEBAQICAv///////////wICAgQEBAAAAP39/f39/QEDAwMEBgMDAwMEBQQE/wME/v75+/r8/AP8/Pz9/f///wEBAgMEBP8A/wL7+gEBAf////////7+/gEBAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wEB/wUFBQUFBv38/f79/Pf2/AEA//gDAgIB/wAA/wAA/wMDAgECAf8AAAAAAP8AAAAAAP8BAf8AAQAAAAAAAAAAAAAAAgEB/wJqvq6MAAAgAElEQVQAAQEA/gEA/gD/AP39/vv8/f///wP+/wT+AAAAAgID/gMAAAEAAQIBAwABAQEA/gAAAAEBAAIBAQICAv///wD//wAA/wAA/wD/AAAAAAAAAAAAAAAAAAABAP8AAAAAAAAAAP8AAP7+/v///v7+/v7+/v7+/wEBAQICAgEBAAAAAAABAAEBAQEAAQAAAAAAAQAAAAAAAAAA//////8A//8A//7//wAAAAEBAQEAAAAAAAABAQAA/wABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAEBAAMEAgD+AP/+/Pn39v39/QwLCRwaGgoKCwzw8Avw8fz4+N7a2u7t7BocGRobGg8REQgMDBQPDPv9//v9/vv+/wABAAACAf7//wUEAggIBv8AAAAAAQAAAQD+/fv6/v8BAf4AAP8AAAAAAQEBAQECAgABAQABAf8AAP7+/v///wAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAgAA/gAAAgAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAQAAAQAAAQAAAAAAAQAAAQAAAQAAAQAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAEAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQABAgABAQAAAAAAAf///////v3+//v+/fr/APv/APoAAfsAAvv+APn8/vj8/vkCAv0FBQIDBAcICgYICgYEBgL+Af7+AP0AAv8AAgAAAgABAQICAgMCAgICAwICAwIBAgECAgIBAQECAwIBAgECAgIAAQAAAQABAQAAAQAAAQD9/v39/Pz3+/kAAAD/AP//Af//AP8AAAD/Af//AP////4AAAAAAQD/Af8AAP8AAP8AAAABAAABAAAAAAAAAAEAAAABAAD/AP/+AQAAAAEAAAIAAAAAAAH/AAEAAAD/AAAAAQAAAAAAAAD/AAEAAAAAAAEAAAAAAAD/AAAAAAD/AAH/AAEAAAEAAAD/AAH/AAH/AAEAAAAAAAAAAAAAAAAAAAD/AAAAAAEA/wEAAAAAAAEAAAEAAAAAAAAA//8AAP8A//8A/wAA//8A/wAAAAEA/wIA/wIAAAIAAAIA/wIAAAEAAAEAAP8AAP4AAQAAAAAAAP8AAP8AAAIAAP8AAAAAAAAAAP8AAP//AP4AAP4BAP4AAP4CAwIEBQEEBQH7A/7/AP3//wL/Af0AAP7///3+//8C/wIAAf8DAgEBAAAAAf7+/v4BAAMCAP8BAQIBAP0CAP0AAP39APz+//z+//v///v///v/////////AAEAAfsBAfwAAvz/APwAAPwAAPwAAPwAAP0AAAIAAAIAAAEBAQIAAAEBAAM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A////////AAAAAAEBAQEAAQD+AQD/AAH+AP/+/v/8/v/9/v/9///9//8A//4A/v4BAAL9AQH+AAD+/wH+/wD9/wD9AAD9AAD+AQH/AQH/AQABAQD/AAABAQAAAf//AQEAAAAAAAABAAABAAABAAAAAAAAAAD/AAAAAAD+AAD/AP8AAAAAAAAAAP//Af8AAQAAAQABAP8BAQABAAAAAAAAAAEAAAAAAAAAAAAAAAAA/wAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAQAB/wAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAABAAABAAAAAAAAAAEAAQAAAAAAAAAAAAAB/wEAAAAAAAAAAAAAAAABAAAAAP8AAAAAAAAAAAAAAAABAP8AAAAAAAAAAQAAAAABAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAABAAEAAAAAAAAAAAAAAAABAAAAAAAAAQAAAf8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAf8AAQAAAQABAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAP8AAAAA/wAAAAEA/wAAAAAA/wEAAAAA/wD/AAAAAAAAAAEB/wD/AAAA/wAA/wEA/gEAAAAAAAAA/wAAAAD/AAAA/wEB/wAAAAAAAAAAAAAAAAAAAQAAAAAAAAEAAAL/AAIA/gD/+/78/v8CAQABAgMCBAUECAoI/wEAAQAB/v/+/f38/fv9/Pz8/v3/AQD/AAD+AQEBAAMBAQIB//7+////AP//AQAAAAAAAQEBAAABAAAAAQEBAAAAAQH/AAAAAAAAAAEAAAAAAAAA/wD//wD/////AQD/Af//AQIBAQAAAAACAQL/Af8AAAAA//8AAAAAAAAAAAAAAAABAAD/AAAAAQAAAgAAAAAAAwEBAAAAAAAAAAEAAAAAAAAAAP7/AP8A//7//fv8/fz8/vz+AP4A//4AAQEBAAEBAQECAgECAgICAgECAQABAP8B//8B//4AAP//AgD//wACAgAAAAD/AQAB/f3++fj59PP18fDx7u7vDg3sAwMEBAME9fT15ubm7Ovs+fj5CQgKCRkKHBwdHh4fHR0fDQsKDAsKAQEB/f35/Pz7/f3+/v//AAEBAQICAwMDAQEB/f3/AAD9AP8A//4A/gH/AQEBAQIBAAAA/wAB/wAB/wAB//8A////AAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAQEBAAAAAAAAAAAAAQEBAAAAAAAA////AAAA////////////////AAAA////AAAAAAAAAAAAAAAAAQEBAAAAAgICAQEBAgICAAAAAAAA////AAAA/v7+AAAA/////////v7+/v7+/f39/f39/Pz8/Pz8/Pz8/Pz8/f39/f39/v7+AAAAAgICAQEBAwMDAgICBAQEBQUFBAQEBQUFBAQEBAQEAwMDAwMDAQEBAQEBAAAA////////////////////AAAAAAAAAAAAAAAAAQEBAQEBAAAAAAAA////////AAAAAAAAAAAAAAAAAQEBAAAAAQEBAAAAAAAAAP//AAAA////AAAAAf//AQEAAQABAgEBAQECAQECAAICAAEB/wAB/wAB/f8A/P8A//8AAv4AAQEAAP8BAQACAAID/wL//wMA+vr7+Pb2+Pr88/T28/X37O3v2tzd293f6ujp9PHy+vz+BwkHCg4QCxATEBETDQ4OCQkJAgIC/v38AgIBCQgIEA8OFhQPFxQPIB0YHh0aGxsZCwkK/fz//fz//Pv6+Pf3/f39AP8A//7/AP/+AgAAAgIAAgEAAQD/AP///v7+/v39AP//////AQAAAQAAAQAAAQAAAQAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAABAAABAAABAAEBAAEB/wAAAP8A/f3++/37/Pz8/Pz7/Pz8+/v7/f39/f39/v7+/v7+/v7+////////AQEBAQEBAAAAAwMDBAQEAwMDBAQEBAQEAgIC/v7+/f39AQEB/v7+/v7+/v7+/v7+/v7+AQEBAgICAQEBAwMDAwMDAwMDBAQEAwMDAgICAQEBAQEBAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAQEBAAAAAAAA/////v7+/f39/v7+/v7+////AAAAAAAAAAAAAAAA/////f39////AAAAAAAA/v7+////AQEBAgIC////AQEBAwMDAwMDAwMDAwMDAgICAgICAAAA////AAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAA/////f39/Pz8AgIC////AQEBAQEBAQEBAQEBAgICAgIC/////////v7+Af/+/wAAAQEBAgIDAwL/AwMDAgICAQICAP///fz9+vr7AwMCAwMBAQMCAgMDBAQE//39AAEA/v/+//4BAgAAAAEBAQEAAQEAAQAAAAD/AP8AAAAAAAAAAQAAAAAAAAAAAP8A/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAQEAAQEBAgIDBAQDAQAABAQDBAMD/v38+/v6AP/9CAgHAwQHAgMDAAD//f39AQH/AAAAAAEBAP//AAAA////AAAAAAAAAAAAAAEBAQABAQEDAgMEAgT/Av39Afz9AAD///8A/P3+Av3++/z8A/v8AQEBAQIC/wAAAAEBAQECAQAAAgEBAQEBAAAAAAAAAQEBAAAAAAAA////AAAAAAAA/wAAAQAA/wAAAAAA/////////v7+/f39/f39/f39/f39////AAAAAAAAAAAAAQEBAAAAAQEBAAEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAEAAAAAAAAAAAABAQAAAQABAAABAAAAAP8AAAAAAAAAAAAAAAAAAAD/AAAAAAEAAAAAAP8AAAAA/wD/AAAAAAAA/wEA/wAA/wAAAAEBAgACAQAA/vz9+/z8/wECBQQHBAcGDQ0L/v/+BAUE/v//9fb28/b28e/v5AMD//7+AP/+Af/9AwUHAAIFAAMFAAMBAAICAgMCAQMCAQICAf8AAAIB/wIA//8B//8BAv8AAAMCAAICAAAA//8A/v79//8A/f///wEBAwMDAwQEAQICAAAAAAAAAAD/AAAAAAABAAAAAAAAAAEAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAABAP8AAAAAAAAAAAAAAAAAAAEAAAAAAAABAAAAAAAAAM3U3qgAACAASURBVAAAAAABAAAAAP8AAAAAAAABAAABAAAAAAAAAAABAAABAAABAAABAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wD/AP8AAAAA/wAA/wAA/v4A/f8B//8B/wIDAQIDBQMEAwQHBgUG/wIE/QAC+wAB+wAC/QIC/QEC/gYIAwUIBAIEAPz/AAH///4A/v8B/wACAAABAAAB/wAB/v8AAP0AAAAAAQD/AAAAAP/9/wAA//////8A//8A//////8A/gAA//3+/f7+/v7//gAAAAAAAAABAAABAAAAAAAAAAABAAEAAAAAAAAAAAEAAQAAAAABAAABAAAAAAAAAAEBAQAAAP8AAAAAAAD/AP8AAAAAAQAAAAD/AAAAAf8AAQAAAAAAAP8AAAAAAQAAAP8AAQAAAQAAAQAAAAAAAP8AAQAAAAAAAAAAAf8AAQAAAAAAAQAAAQAAAQAAAAAAAQD/AQAAAAAAAAAAAQAAAQAAAQAAAAAAAAAAAAAAAQAAAAAA/wAA/wAA/gAAAAEA/wEAAAAAAAAA/wAA/wA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A//7/AAEAAAAAAAAA/wMBAgIEBQAA/wEAAAAAAAIAAQEAAQEAAQAAAAAAAAAAAAAAAAAAAAABAAEAAAAAAQAAAAAAAQAAAQAAAQAAAAAAAQAAAAABAAEAAQAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///////////8AAAAAAAAAAAAAAAAAAAACAgIBAQEBAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAD////9//79/v4A/wAA//8AAAACAgIBAQMBAAACAQABAAD/AAD+AAD+AAAAAAABAAAAAAAAAAAAAAACBAUGBAUMAAoPAA/7AP71+vjv9PLv8/Hq7+3p7ewBAP/x9fT6+Pf7+fj9AQD9AgABAwICBQQBBAMDAgEDAQL/AgEAAAH/AAH/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAP8AAP4AAP8AAP8AAP8AAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAEAAAIAAf8AAP8AAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAD/AAAA/wAA/wAAAAAAAAAAAAD/AAD/AP8AAAAAAP8AAP8AAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAABAQEAAAAAAAABAQAAAAAAAAAAAAAAAAAAAQAAAAAAAAAA//8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAEAAAEAAAEAAP8BAQIDAwEAAgL//wH//wD//wD//v3///3///0AAP4A//4AAP8BAP8AAP8BAf4BAP8BAP4AAP4B//4A////AP4AAP4CAQEDAQICAQL9/v39/f39/v38/f39/f0DBAQEBQMICQj9///++fr7/Pz9/wAD/gD/AAECAgQCAgT+/vwAAAH//wABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAEBAQMCAgMAAAQA/wMBAAMAAAAA/wABAAAAAAAAAAD//wAAAAD//wAAAAAA/wAA/wAAAAAA/wAAAP8AAAAAAP8A/wEBAAABAAEAAAAAAAAAAQAAAAEAAAEAAAEAAAEAAAEAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAEAAAAAAAAAAAAAAAEAAAAAAP8AAAAAAAAAAAEAAAAAAAAAAP8AAAAAAAAAAAEAAAAAAP8AAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAA/wD//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAP/+//4AAAABAQABAAAAAAD/AQEAAAEAAAEAAAAAAAIBAP8BAAAAAAAAAAAAAAAAAP8AAAAAAP8AAAAAAP///v7+/v3+/v79AgAC/QAD/QACAgACAwACAgAAAQEAAQECAgMDAwMBAQADAgEEAwECAwEAAP4AAP7+/v39/v/+/v7+/wH/AAIBAv8AAgIAAgIAAgEBAQEAAAABAf7////9//78/fz8/PwAAAD+AP8AAgEDAwMCBAMCBAP8/Pz8/Pz8/PwAAAD/AP8BAQAAAQEAAQEDBAMAAgED/QP7/Pz5+/r9/f3//v7///8CAgIDBAQEAwT/AP/9//7//v8BAQACAwL+/v7+/f79/v0CAgICAQIBAAH/AAD/AAABAgEDAwQDBAP+/v7+/f7+/v4AAgEBAgH//////QD9/f0AAQEBAf4CAgIAAAABAQEBAQECAgMAAgEAAAAA//8AAAD+/P78/fz7+/v///////8CBAMAAQADBAQCAwMAAQD+//4BAgICBQQEBAT/AwP/A/78+vv7+vr8+vsGBwYHBwcCAwL9/f38/f0CAP8EBAQCAwL+/P37/fz7/PwAAAAAAQAAAAD+///+/f0BAQEDAwMBAQH/AQD+////AAACAwIFBgUAAAD/AP/9/v4BAQEBAgEAAAAAAAAAAAD+/v79/fz8/PwCBAgCBAMEBQT++v7+/P4AAP8EBQUEBQX9/f37+/v8/Pz+////Av8CAgIAAwAAAgD9/Pz4+vn6+voFBQUFBQUCAgL9/f38+/z//wACAQIBAQIBAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAEA/wEA/wEAAAIAAAEAAAMAAAMA/wMA/wMA/wMA/wIAAAMA/wIA/wQA/wUA/wX//gD+/P39+wAA/gID/wIB/wMAAAQAAAQAAAP/AAMAAAIAAAEAAAEAAAAAAAAAAAAAAAABAAAAAAAAAAAAAP8AAP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAEAAAD+AAAAAAAAAAABAAABAAEAAAEAAAEBAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAABAP8AAAABAP8CAAACAP8AAAABAP8AAAD9AP3+/vsA/vz///v///0CBQYGAwILCAQTEAsVFBESEg4REQ0REA0JCAEHBgAGBQAA/AD//QAA/gADBAEFAwABAQABAAAA/wAAAAD/AAD///4A//8A//7///4A////AP8BAAACAQEBAQEBAgIDAgMBAP8A//4A//8AAQEAAAEAAAEAAAAAAAAAAAAAAAAAAAABAAAAAAEAAAEAAAAAAAH/AAEAAAAAAAAAAAEBAQAAAAEBAAABAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAA/wAA/wEA/wAA/wAA/wEAAAIBAQABAAAAAP8BAAAAAQEBAAEA/wEA/wAAAAAAAAD/AQAAAgAAAAAAAAAA/wAAAAAAAAAAAQAAAgAAAAD/BAAAAQAB/wMF/gcJA/8ABAACCQUGDgsL8fb08vX18/f2+Pz6+Pz7+/38/P79/P/++/z9/P/+/v//AQMEAQIDAQIC/wAAAAD//wEA/wD/AAEAAAAAAAAAAAAA/wAAAAAAAQEBAAAAAAEAAAEAAAEBAAEAAAAAAAAAAQEA//8A/wAA////AAAA/wD/AAAAAAD/AP//AAAAAAAAAAEAAAABAAEBAAAAAQEAAQEAAAAAAAAAAQEBAAABAf//AQAAAQD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAA/wAAAAD/AAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADsf2wWAAAgAElEQVQAAQEAAAAAAAAA/wD/AAAAAAAAAAEBAAECAQD/AAAAAAAAAAD/AAD/AAD/AAH/AAD/AQEAAAD/AAD/AAEAAAAAAAAAAAABAAAAAAACAAD/AAAAAAD/AAAAAAH/AQH/AAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAD/AQD+AAD+AAABAAD/AAD/AQAAAAAAAAAAAAAAAAAAAAAAAf8AAAAAAAEAAAAAAAAAAf8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAABAAAB/wAAAAAAAAAAAP8A/wAA/wAA/wEA/wH9/wD+AAD+AAD+AAH+AQD/AAD/AAD/AAH+AAD/AP/+AAD/AAH/AP//AAD/AAAA/wAA/gH/AAH+/wH/AQMBAgECAwEAAAICAgMC/v4A+vr8/v4AAQMEBAUAAQIDAgICAQED/v8B/Pz//f0BAAACAQEAAAAAAAABAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAP////8AAAAAAAAAAAAAAQEBAAABAQABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA//8AAAAAAP8AAP//AP8A///////+//8AAP8BAf8AAP8BAAAAAAAA//8AAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAABAAAAAAEAAP8AAAABAAAAAAEB/wABAAABAAAAAAAAAAABAAD//wABAQABAAD+Af8BAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAA/wD/AAEAAAAAAAAAAQABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAEBAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAD/AAAA/wD/AAAB/wAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAABAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAD/AAAAAAAA/wAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAf8AAAD/AAAA/wD+/wD/AAH/AAAAAAAAAAD/AAAAAAD/AAD/AAAAAAAAAAEAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAD/AAAAAAD//v//AgD+/gD/AQAAAAAAAAAAAP8BAAAC/wD//wAA/wH//wAAAAAAAAAAAAAAAAAAAAAA/wAAAP//AAAAAP7//wD/AAAAAQEBAAAA//4A/v3//////v7+AQL+AAH+AAD9AQL/AwL/AgIA/vwB/AMBAwMBAAD/AAH/AAD+/v8A/wAA/wABAAEBAQECAAEA/v/+AP8BAP8AAAAA/v7+/wD/AAEAAgMCAwADAAAAAQIB/v/+AP4AAQEBAAAA/wD/AAEAAQIBAAAAAP8BAAAA/v7++/z7AP///v/////+AAD/AAEAAQIBAQECAAAAAQICAQIBAAEA/wD/AP7+/gEBAQEAAAAA/////wAAAAEB/wAA/v//AQD/AAAA/wH/AAAA/QD9//7//////gD+/wH/AAABAf8B/////wD/AQEAAAD/AAAA/wD/AAAA/wD/AQABAf//AP4BAAAA/wAAAAAA/wEAAQIBAwQDAAAA////AgIB/f79+fn4/P38AQIBBQYFAQIA/f79/PwAAP7/AP7//wD/AQIBAgQDAAEB/gD+AP8A/v///wAA/v///f79/wD//v/+/wEAAgMCAAAAAAAA////AAAAAAAAAQEBAAEAAAEA///+/v4A////AAAAAQIBAAEBAAEB/wAAAAD/AAAAAAAA/wAAAAAA/wEAAQMCAwADAQIA/v79/PwA/v79/wD/AAH//v7+/P38/v7+/wD/AAEAAQEBAgACAQEB/wD//f78/v/+AAEAAgQCAAIA/wD//wD//wD//wD/AAEBAAEAAAD/AAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAQAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAQAAAAD/AAD/AAD//wH/AAH/AAAAAAAAAAEAAAABAAABAAD+AAABAAABAAAAAAABAAABAAAAAAAA/wAAAAABAAAAAAAAAAAC////AAD+AAAAAf8BAQAAAQABAP8AAP8BAP8B//8CAP8B/wADAgAFAQAEAgAEAQEEAAADAP4B//4C/fsD//sA//r9+vgB/fsBAP4B//4B//8B//4BAf8BAAACAQACAQECAAECAAAAAQABAQAAAQD+AP/+AAD9/wD9AAD8/wD8/wD9AP/9AAD/AQH/AQEAAAAAAAAAAAAAAAABAAABAAABAAABAAABAAAAAAAAAAEAAAAAAAEAAAAAAAEAAAH/AAD/AAD/AP8AAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAAAAAAAAAABAAAAAAAB/wAAAAAAAAEBAQEBAQEBAAAAAAAAAAD/AAD/AAAA/wD/AP8AAAAAAAAAAQEAAAEAAQA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AAAAA/wAAAAAAAAAAAAAAAP8AAAABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPK8lNMAACAASURBVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAQAAAAD/AAAAAP8AAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAgAA/wAAAAAAAP8AAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAf8AAAAAAAAAAAAAAQAAAf//AAAAAP8AAAAAAAAAAAAAAAAAAQAAAAABAQAAAAAA/wAAAAAAAP8A///+/wD//wEA/gEAAgL/AwD/AgD/AgAAAgEBAQEDAQIAAgMBAgIAAQD+AP////7/AP7+/v38/f38/Pz7+/v7+wP+AQMBBQID/gH//v///v///f8A/P4AAgEA/wAA/gABBAAAAAABAAAA/wAA/gAA/gEA/gAB/wAB//8B/wAA/wAAAAAAAAAAAAAAAQAAAQAAAf8AAQAAAv//AgAAAgAAAQAAAQAAAAAAAP8BAQAAAf8AAQAAAf8AAAAAAAAAAAAA/wEAAAAA//8AAAAAAQAAAP8AAAAAAAAAAP8AAP8AAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECAQMBAwAA/wEA/wD///7+/fz+/f0AAAIB/gEA/wL//gAA/gD//gH//gEA/wACAQIAAgMBAAIBAAACAQACAgADAf7+/Pr59v7///7+/gH//gEAAAD///8AAP7+AP39AAMB/wgGAQIGCAgFCwgGBAkHBhANCRAOCRAODBANDRAODQ8NCA8MBg0LBAMCAAQBAAMC/wQDAAABAP///v79/wAB/gAAAAAAAAEA/wAA/wEA/wEA/wAA/wABAAECAQH/AQAAAQECAQEAAAAA/wAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD////+/v7///8BAQECAgIAAAAAAQAAAAAB//8AAAAA//8A//////8AAP8AAAAAAAABAQACAQIAAAECAAIDAAACAAH8AgX/A/8DBgILBAgQCg76DPr5+/r4+vnz9fPy9fTz9PPy9PLy8/L3+Pf4+fn5+voAAf8AAf8AA/8DBAMDAwABAQH/AAP/AAD8Af38//38/gAA//////7/AP8AAgEAAgEDAAICAQIDAgMAAQEAAgH/AP/+/v79/v39/f39/f3+/v0DAwMEBAICAwIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAP8AAP8AAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAD/AP8AAP8BAP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAQAAAAEAAAAAAP//AAD/AAAAAP8BAP8AAP//AP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAD/AAAAAAABAAAAAAAAAAEAAAAAAAH/AAD/AAEAAAAAAAEAAAEAAAEAAAABAAEAAAEAAAEAAAEAAAEAAAEAAAAAAAAAAAAAAAAAAP8AAAAAAP8AAP8AAP8AAP8AAP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP//AAD//wAAAAAAAAAAAAAAAAABAQAAAP8AAAEBAQIBAQEAAAEAAAABAQEAAAAAAAABAQEAAAABAAAAAAABAAAA/v7+//3//v4A/wAAAAABAAAAAAAAAAAAAAAAAP8AAAAA/wEAAAEAAAEAAAAAAAEAAAEAAAEAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAP8AAP8AAf8AAAAAAAAAAP8AAP8AAAAAAAAAAAAA/wAAAAAAAAEA/wH//gH+/gAAAAAAAAAAAP8A/wEBAAAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAAA/wAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAA/wAAAAAAAP8AAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAABAAABAAAAAQD/AAAA//8AAAABAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AAAAAAAAAAABAAAAAAD/AAAAAAABAQEBAQEBAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAf8BAAABAP8AAf//AP8AAAAAAf8BAAAAAAAAAAD/AAAAAP8BAP8AAAAAAAD/AAAAAAAAAAABAAAAAP//AP8AAAAAAP8AAAABAAD/AP//AP8AAAAAAAABAAAAAP//AAAAAAAAAAABAAAAAP8AAAD/AAAAAf8BAAAAAAAAAP//AAAAAAABAAEBAQEBAQEAAAAAAAAAAAAAAAAAAAEAAAAAAAEA/wEAAAAAAAABAAEAAAEAAAAAAAEAAAH/AAEAAAAAAAAAAAEBAQEAAAAAAQEAAAABAAEAAAAAAAABAf8AAP8AAAD/AP8AAP8AAAD///4AAP////8AAAAAAP//AP//AP//AAAAAP//Af//AP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAEAAAAA/wAAAAAAAAAAAQD/AAABAAAAAAABAAD/AAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAEAAAEAAAD/AAAAAAAAAAEAAAAAAAIAAAEAAAEAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAP8A//7//v7//f4BAAEBAQMAAAABAAACAAEBAQABAQEBAAICAAICAAICAAL//wH//////v/+/f3+/Pz8/Pv8/Pv7+/oAAQMAA/0CA/8B//8B/v4A//7//vz//gEB//8A//4BAP8AAQEAAgEB/wAAAP4AAP//AP//AP4AAP4A//4BAP8B/wAAAAEBAQEBAAEAAAIAAAIAAAL/AAEAAAEAAAEAAAMAAAEAAP8AAP8AAAD/AAD/AAAAAAAAAAAAAAAAAP8AAP8AAAAAAP8AAAAAAP8AAAAAAAEAAAD/AAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEBAQECAQAAAP///f3+/f38//0A/v4A//4BAP4CAP8CAf8DAAACAQADAQACAgADAgAEAgIDAgIEAgEAAwIBAwH9///3/Pv69/v+AAABAgEBAQEA/////v7///4AAP////4EBQQJCQgLCQcSEA8TERASEA0PDQUPDQULCQYHBAYHBQYKCAMLCAQKCAACAAACAQACAAAB//8B/wAA/v7/AP7+AP0AAAABAP8AAP8BAQAAAf8AAf8AAAAAAQIBAgACAAAAAAEAAQIAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAQAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAP8AAQAAAQAAAf8AAAAAAAAA/wAAAAAAAAAAAAAAAAAA/////wAA////AQEB////AQEBAf8AAAAAAAAAAAD/AP//////AP/+AP//AAAAAAAAAQEBAgAAAgIB/gABAgAAAf8C/QEDAAMFBgMFAAIEAAED/gD+/AD+/P788/Xz8vX08fLx7vAJ7wQG8vTz8wL09P4A/gD//v////8AAwABAwABAQAB/gAA/wAA/wAA//8A//8AAP8AAP8A/wEAAQABAAABAwEBAgACAwECAAEAAAAB/v8A//4AAfz/AP3+//39/f38AgAAAAIBAAL/AAAAAAD//wAAAAAAAAAAAQEAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAD/AAAAAAAAAAAAAAEAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAD/AAAAAAAAAAEAAAAAAAAA//8AAAAAAAAAAAEAAAAAAAD/AAD/AAD//wD/AAD//wD/AAD/AAD/AAH/AAAAAAAAAAAAAAAAAAAA/wD/AAD/AAAAAAAAAAAA/wAA/wAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAEAAAAA/wAAAAAA/wAAAAEAAQEAAAD/AAD/AAD/AAD/AP8AAAAAAAABAAAAAAAAAAABAAAAAAAAAAABAAAAAAAAAAAA/wAAAAAAAAABAAAAAAABAAAAAAABAAAAAAABAAABAAABAAAAAAABAAABAAAAAAABAAABAAABAAAAAAAAAAH/AAAAAAAAAAAAAAD/AAD/AAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAABAAEAAAAAAAAAAP8AAAAAAAAAAAAAAAABAAAAAAABAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAP8AAP8A////AAAAAQEAAAAAAAAAAAAAAAD/AAAAAAD/AAABAQEAAQEBAQEBAQEBAAAAAQEBAQEBAQEAAAAAAQD///7/Av0B/gH/AAAAAAAAAAD/AAAAAAAAAAAAAAABAAAAAP8AAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAAD/AAD/AAH/AAAAAAD/AAD/AAD/AAAAAAEAAAAAAP8AAAAAAAABAP8B//8BAf4BAAABAAABAAABAP8AAQAAAAAAAAAA/wAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAQAAAAAAAAD//wAAAAAAAAAAAf8AAAAB/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAP//AAAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAAAAAAA/wAAAAAAAAAAAQAAAAAA/wAAAAAAAAAAAQAAAAD/AAAA/wAAAAAAAQAAAQAAAAEB/wAAAP8AAAAAAQABAAAA/wD/AAAAAAAAAQABAAAAAAAA/wD/AAAAAAAAAQABAAAA/wD/AAAAAQEBAQECAQEAAAAA/wD/AAAAAQABAAAAAAAA/wD/AAAAAAAAAQABAAAA/wD/AAAAAAAAAQABAAAAAAAA/wD/AAH/AQD/AQD+AAH//wAAAAAAAAH/AQAAAAAAAAAA/wAAAAD/AQD/AAAAAAAA/wAAAAAAAAAAAQAAAAD//wD/AAAAAAD/AP//AAAA/wD//wD/AAAAAAAAAQAAAAD//wAAAAAAAAAAAQAAAAAAAAAA/wAAAAH/AQD/AAAAAAAA/wAAAAAAAAABAAABAAABAAAAAAAAAAAAAAAAAAABAQAAAAABAP8BAAAAAAAAAAAAAAABAAAAAAABAAA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8+wD/AP38/fj5/fX1+PLy9+/v9gAPAAYNAQIDBAEAAAAAAP//AAABAAAAAAEBAQECAQIDAgEBAP/////+/gEBAQABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQABAQEAAAAAAAAAAAABAAEAAAAAAAAA/wAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAQABAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAABAAEAAAAAAAABAAAAAAAAAAAAAAABAAEBAAEBAAEAAAH//wAAAAAAAAD/AP//AP//AP8AAP4AAAL/AP4CAAH/AAD/AQAAAQAAAAD/Af8AAAAAAAD9AP79AP79AP79AP79AP39//79AP/+AP79//79//77/v32B/YM+Pf4+vr8/f38/Pz6/Pr4+/r5+/r4+/r4+/n5+/r7+/v6/Pv7/fz8/fz8/vz9/v7+///+//7/AP7/AP7/Af8A//8A/gD+AP4CAP/+/wEAAP//AP7/AP//AP//AAAAAAAAAAAAAAEAAAAAAQAAAQAAAQAAAQAAAQABAQAAAQAAAP7/AP//AP8AAAAAAAD/AP////8AAAD/Af8AAAAAAQAAAAAAAAH/AP8AAAAAAAAAAAABAAH/AAAAAAAAAAD/AAEAAAH/AAD/AAD/AAAAAAAAAAAAAAABAAAAAAAAAAAB/wAAAAAAAAAB/wAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAQAA/wAAAAD/AAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAABAAAAAAAAAAABAAAAAAD/AAAAAP8BAP8A//8BAAAAAAEA/wAAAP8BAAAAAAAAAAAAAAAAAP8AAAAAAAAAAP8AAAAAAAAAAAABAP8AAAAAAP8A/wABAAAAAAABAAAAAP8AAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAA/wAAAAABAAABAAAAAAAAAAD/AP//Af8AAAAAAP///wD/AP8AAAAAAP8AAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAABAAAAAAAAAAAA/wABAAABAAAAAAAAAAAA/wAAAAAAAAAA/wAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAABAAAAAP//////AAD+Af8AAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAP8BAAABAAAC/wAC/wAC/wAB/wABAAAAAERJNSIAACAASURBVAAAAAAAAP8AAP8AAAD/AAAAAAAAAP8AAAAAAP//Af//AP8AAAAA//8AAP8AAP8AAAAAAAAAAAAAAAAAAAD/AP8AAP8AAAAAAAAAAAAAAP8AAAAAAP//AQAAAAAAAAAA//8AAP8AAAAAAAAAAAH/AAD/AP8AAAAAAAAAAAAA/wAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAABAAAAAAAAAAAA/wEAAP8AAAAAAAAAAAAAAAEAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAD/AAD/AQD/AQD/AQAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAAAAAAAAAAAAAAAAABAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAA/wABAAAB/wAB/wAB/gAB/wEBAAABAAABAAAAAAAAAAAA/wAAAAAB/wAAAAABAAEB/wEAAAEAAAAB/wEBAAEB/wEAAAAB/wEBAAECAAECAAEBAQIBAAEBAAIBAAACAAEB/wAAAAAAAQAAAgABAgEAAAACAAIBAQECAQIDAwMCAgMDAgQDAQMCAAQIBwkKCAoIBwkFBQUGBAYGBgYJCAgICAgIBgcHBwcIBwcFAAQGAAUFAAMDAAICAAECAAEAAAAAAAABAAABAAAAAAAAAAAAAAABAAICAAICAAIC/wMCAAMC/wMAAAABAAEB/wECAAABAAABAAAAAAAAAAABAAABAQABAQABAQABAAAEAwIEBgMEBwAHBwgLCgANDf4NCvkSD/rwEfbv8PXu8PTs7vQK7fMGBvPx9PYB8/75+vsBAv0A//8A/gD//wH//wH/AP3/AP4AAP78/f4A+v729/fz8/Xv7/MHBAENCQUCAQAB/wD//wD/AP8AAAAAAQAAAQACAgH/AP8BAAABAAAAAP8AAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8A//7/AP8AAAAAAQABAAEAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAQAAAAABAAAAAAEAAAAAAAABAAAAAAAAAAEAAAABAQAA/wH/AAD/Av8CAAAA/wAAAAD/AAAAAAH/AAEAAAABAAAAAQABAAAA/wAAAAAA/wD/AP8A////AAD+/wD/AAD+/wH/AAAAAAAAAQEAAAAAAAAAAAAA/wAAAAAAAQAAAwABAgACAgABAwAB/QD//gD//gD//gD//gH+BgL+BAUDCAEI+wb9/v7+/v/+/P39+/38/P39+/78+/38+v37+v37+f36+vv6+vv6+/z7+/v7+/z8+/38/f/8/P79+/37+f35+fz6/v/+/wD9/v8A/wD///8B/////gD//wD/AAD/AAAAAAAAAAEAAQIAAQEAAAEAAAEAAAEAAQEAAAEA/wEB/wD//wD/AAAA/wD/AAH/AAD/AAAA/wH//wAA/wH/AAAAAAAA/wH/AAAAAAAA/wD/AAAA/wEAAAAAAAAA/wABAAEA/wAA/wEB/wAAAAAAAAEAAAAAAf8AAAAAAAAAAQAAAAAAAAAAAf8AAAAAAAAAAAAAAAAAAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAD/AAAAAAAAAAEAAAAA/wAAAAAAAAAAAf8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAQD/AP8BAAAAAQAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAP8AAAAAAQD/AAAAAAD/AAAAAQD/AAAAAQAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAQD//wD//wAAAgD//wD//wD/AAAA/wD/AP8AAAABAAAAAQABAAAAAAAAAAAAAAABAP8AAAAAAAAAAQABAAD/AQAAAAAAAAD/AAABAP8AAAAAAQABAAD/AAAAAAABAAABAAABAAAAAAABAP8AAAAAAAAAAQABAAD/AAAAAAAAAAAAAAD/AAAAAAAAAQAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQD/AAAAAQAAAQAAAQD/AQABAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAD/AAAAAAD/AAD/AQAAAAAA/wD/AAD/AAD/AAAAAAAAAAD/AAAAAAAAAQD/AAD/AAAA/wAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAD/AAD/AAAAAAAAAAAAAAAAAAD/AAAAAAAAAAABAAAAAAAAAAD/AQAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAQAAAQAAAAAAAAABAAAAAAAAAAAAAP//AAABAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAA/wAA/wAAAAAAAAAB/wEBAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAQABAP8BAAAAAAAAAAAAAAAAAAAAAQAAAAAAAf8AAAAAAAAAAAAAAAAAAAAAAAAAAQAAAf8AAAAAAAAAAAAAAAAAAAAAAP8BAQAAAf8AAf8AAf4BAf8BAQAAAAAAAQABAAAAAAAAAf8AAAAAAf8AAAAAAQAAAf8BAAABAAAAAf8BAQABAf8BAAAAAf8BAP4A//7+/f3/AQEBAgEDAwIAAgEDAwIDAwECAwIDAwMDAwIDBAMEBAMEBQUFBgUGBQUFBgUGBgYHBQMGBAEFBQAGBQQGBgQHBQQGAwIDBAMDBAMDBAQEBQQEBQQEBAMEBAAEAwACAwADAwACAgABAgAAAQABAQAAAAAAAQAAAAAAAQAAAAABAQABAgABAQACAgABAgACAP8C//8BAAAA//8AAf8A//8AAf8AAQAAAQAAAP8AAAAAAwIAAgEAAwAA/v8BAAEAAQIAAP4AAgAABQIAAAUBAgwECAYACgoBDg4FExQJE/AOFO747e737fDy7fDx8vT1+fr6+Pr6AAD//vz5+Pb5AAD8AAD7AAD9AP/9AP/9+Pj38/Py7+7tDQkC/A8JAgAAAP8A//7//wAA/wIBAAEAAQEBAAP/AQEBAP//AP//AAAAAAD/AAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAABAAAAAAAAAAAAAAABAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAQEAAAAAAAABAQAAAP8BAAAAAAAAAAAA/wAAAAAA/wAAAAAAAAAAAP8AAP8AAAAA//8AAAAAAAAA/wAA/wD//wAA/wABAAAAAAAAAAAA/wAAAAAAAQAAAAEAAAAAAP8AAAIAAQAAAf8A/wEAAP4AAwMA//8A//8AAP4B//8AAP4A/wgGCP4F/v8AAAAAAAAAAP7///7/AP7///0A/v0A/vz//Pn++/r++vj7+fj5+Pn6+fj4+Pj5+fn6+fr9+/v8+/b59/P39P/6//3//P0AAQH//f///////////wH//v8A/gAAAAAAAAABAAABAAH/AAEBAQACAAABAAECAQEAAAAAAP////8A//4A/wAAAP8B/wAA/wAA/wAAAP////8A//8BAAAAAAAAAP8B//8A/wAAAAABAAAAAP//AAAAAAAAAP8A/wEBAP8BAP8AAP8AAAAAAAAAAAAAAAD/AAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAP8AAAAA/wAAAAAAAAAAAAAAAAAAAAAAAP8AAAEAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAEAAAAAAAEAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAEA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAA/wAA/wAAAAAA/wEA//8A//8AAAAA/wAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAEAAQAAAAEAAAAAAAAAAAAAAAAAAAAA/wAAAQAAAAEAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAQAAAAEAAAAAAAAA/wAAAAAAAP8AAAAAAAEAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEA/wAAAAAAAAAA/wAA/wAAAAAAAAAAAAAA/wAAAAAA/wEA/wAAAAAAAP8A//8A/wAAAAAAAAAAAAAAAAAA/wAAAAAA/wAA/wAAAAAAAAAAAAAA/wAAAAAAAAAAAP8AAAAAAAAA/wEA/wAAAAAAAP8AAAAAAAEA/wAAAQAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAEAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH/AAEAAAAAAAEAAAAAAAH/AAAAAAAAAAEAAAAAAAAAAAD/AAEAAAH/AAAAAAAAAAEAAAAAAQAAAAD/AQEAAAH/AAH/AQH+AQH/AQAAAQAAAAEAAQEAAAAAAAH/AAAAAAH/AAAAAAAAAAH/AQE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BAAAB/wEAAAAB/wAAAAAA/wAB/wAA/wAAAAAA//8AAAAB/wAAAAABAAABAAEAAAEAAAAAAAEBAAAC/wEA/wEB/gIB/wEA/wAAAAAB//8A/wAAAAAAAAAAAAAAAAABAAECAAICAQIDAgMCAQIDAgICAgMDAQICAAIBAQECAAIBAAEBAAADAQQEAwQEAwQFAwUFAwQFBAUFBAYFBAUFBQUGBAYGBQYHBgcHBwcGBgYHBggHBwcGAwcGAQYFAAYCAQMCAAQCAAMBAAABAAABAAAAAAAAAAABAAAAAAABAAAAAAAAAAABAAABAAAAAAABAAAAAAAAAAABAP8AAAABAAABAAICAAIBAAEAAAAAAAABAAEAAAAAAAEAAAAAAQAAAAAAAAAAAQAAAAAAAAAAAAAAAQAAAQAAAQEAAAAAAQABAAAB/wAAAAACAAABAAACAQEAAQAAAQED/wADAwAFBAABAAMDA/4HBwQHBw4KCwAPEAbw8Qrv8Qz29/b4+fj4+ff7+/j7+/j8/Pz+/fv+/fr5+AH09PLv7wHzFA739hL6+vwDAAADAQECAQEBAP8AAP/+/v7+/f3//v4CAQEBAQECAgEAAf8AAP8AAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAEAAAIBAP8AAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQABAAAAAwECAAAB/wD//wD//wH/AAAAAAAAAAAAAAAAAAAAAAAA/wAA/wAAAAD/AAAA/wD/AAAA/wAA/wAAAAAAAAAA/wD//gD//wD/AAAA/wAAAAAAAAAAAAAA/wAAAAAA/wD//gAB/wD//QACBgEC/QEE/QQG/QII/gX+/Qb9/f39/f79/P/+/f7++P779fz49v34/P/9/P79/f/9/Pz8/Pz8/Pz8+/z6+/v7+vz6+/z7+/v6/P38/P38/Pz8/P78/f39/f/9/v/+///+AAEAAQIBAAEA/f/9/v8B/f79//8B/v7/AAAAAAAAAAEAAQIBAQICAQEBAQIBAQIAAQEBAAAAAAEA/wD//gD//wD//wEA/wEA/wH//wD/AAAAAAD/AAAA////AAAA/wAAAAAAAAAAAAAAAAAAAAEAAQEBAAEAAAEAAQAAAAAAAAAA/QAA///+/v7/AAAAAAEAAAEAAAEBAAAAAQABAAEAAAAA/wH/AAAA/wD/AAAAAP8A/wD//wD/AAAAAAAAAP8AAf8AAgD////+Av8BAf8BAQABAAABAAAA/wAAAAAAAAAAAQEBAQAAAAAAAAD/AAD/AAAAAAEAAAAAAAAAAAAAAAAA/wD/AAAAAAAAAAD/AAAAAAEAAAAAAQAAAAAAAAAAAAAAAAD/AAAAAAEAAAAAAAAAAAABAAAAAAAAAAD/AAH/AAAA/////v/+/v//AAAA/wEAAAEAAQAAAAAAAQAAAQAAAQAAAAAAAAEBAAAAAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAAA//7/AP4AAAD/AAAAAAAAAAAAAAABAAAAAAAAAAD/AAEBAAABAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wD////+////AAAAAAEAAAAAAAAAAAAAAAEBAAAAAAAAAQAAAAAAAQAAAAAAAAAAAAEBAAAAAAAAAQEBAAAA////////////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAQAAAAAAAP8A/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEBAAEBAAAAAQAA/wEAAAAAAP//AQAA/wD//wAAAAAAAAAAAP8A/wAAAP//AAAAAAAAAP8AAP8AAAAAAP7///7//v//AAAAAQAAAAAAAAAAAAAAAAABAAAAAAAAAQAAAAEAAQEAAAAAAAAAAQH/AAAAAAAAAAH/AQAAAAEAAAAAAQEBAQEAAAABAAAA/wH/AAD/AAD/////AAAAAAAAAAD/AAD/AAD/AAAAAAAAAP//AP8A/wAAAAAA/wD//wAB//8BAP8AAAABAAAB/wACAAAAAAABAQEAAAAAAAAAAQD/AQAAAAAAAAABAAABAQEAAAAAAQABAQABAAAAAAAAAAD/AAAAAQAAAAAAAAAAAAAAAAAAAAAAAQAAAAAA/wAAAP//AP7//////wD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D) Nutrient Cycles

- Nutrient: a chemical substance that an organism must obtain from its environment to sustain life

- Oxygen combines with these elements

E) The Carbon Cycle

A diagram of carbon cycle

Description automatically generated

F) The Nitrogen Cycle

- All organisms require nitrogen for amino acid (used to produce protein & nucleic acid)

- Forms of nitrogen on earth

- In air: nitrogen gas (78%)

- In soil

- ammonia / ammonium

- Nitrate ( Directly used by plants)

- Nitrites

- In plants/animals: organic nitrogen compounds e.g. protein

1) Nitrogen fixation

- Bacteria convert nitrogen gas into or

- Rhizobium in bean plant

- Lightning converts a small amount of nitrogen gas to usable forms of

2) Nitrification

- Some soil bacteria convert / into

- Some soil bacteria convert into and that producers can use

3) Assimilation

- Plants absorb in the soil to make proteins & nucleic acid

4) Ammonification

- Decomposers break down organic nitrogen compounds in dead organisms and release to the environment

5) Denitrification

- Other soil bacteria convert back to nitrogen gas ( and nitrous oxide) in the air

G) The Phosphorus Cycle

- Phosphorus forms a part of vital molecules (DNA/RNA)

- Not abundant in the environment

- Forms of phosphorus on earth

- In organic phosphate on land rock and soil minerals in ocean

- Organic phosphorus compounds in living things (DNA/RNA)

- Short-term cycle: phosphorus in phosphate solutions is cycled from the soil to producers and then to consumer

- Long-term cycle: weathering/erosion of rocks that contain phosphorus slowly adds phosphorous to the cycle

H) Nutrient Limitation

- If ample sunlight & water are available, the availability of nutrients may limit the primary productivity of an ecosystem

- Primary productivity: the rate at primary producers created organic material

- Limiting nutrient: the nutrient whose supply limits productivity

- Aquatic ecosystem

- Limited nitrogen

- Freshwater: limited phosphorus

- Some events may cause large input of limiting nutrients e.g. runoff

I) Algae Bloom

- Dramatic increase in algae and other primary producers

- Increase in nutrient

- No enough consumers -> cover water surface -> disrupt function of ecosystem

4.1 Climate

- Weather: day-to-day conditions of the earth atmosphere

- Climate: long period patterns of temperature and precipitation

- Rarely uniformed

- Factors affecting climate

- Solar energy trapped in biosphere

- Latitude

- Transport of heat by winds & ocean currents

- Environmental conditions can vary over small distances e.g. microclimates

A) Solar Energy and the Greenhouse Effect

- Greenhouse Effect

- 1) Solar energy arrives as sunlight strikes the earth’s surface

- 2) Some of the solar energy is absorbed and converted into heat

- 3) Some heat (heat energy) radiates back into space, atmosphere gases trap some

- This is called the greenhouse effect, which maintains earth’s average temperature

- Greenhouse gases

- CO2

- Methane

- Water vapour

- Without the greenhouse effect, the earth’s temperature will be 30 degrees Celsius higher

B) Latitude & Solar Energy

- Polar areas: less solar energy

- Near the equator: intense solar energy

- Climate zones

- Tropical

- Temperate

- Polar

C) Heat Transport in the Biosphere

- Wind

-Warmer region: heated air rises, expands, spreads, losing heat along the way. Air cools, it sinks

- Cooler region: Cooled air sinks, pushes air at the surface outward, air warms

- Earth’s rotation causes the wind to blow generally from west to east over the temperate zones and from east to west over the tropics and the poles

- Ocean currents

- Warm surface currents add moisture and heat to air

- Cool surface currents cool air

- Deep water currents are caused by cold water near the poles sinking and flowing along the ocean floor

- Upwelling: water rises in warmer regions

4.2 Niches and Community Interactions

* Niche
  + Role or position that organisms has in its environment
  + E.g. where it lives, how it interacts with the environment
* Resource
  + Any necessity of life
* Tolerance
  + The ability to survive and reproduce under a range of environmental circumstances
  + Every species has their own range of tolerance
  + Organisms experience stress beyond/ below optimum range
    - Expand more energy for homeostasis 🡪 less energy for growth and reproduction
  + Determines habitat

1. Competition

* Occurs when organisms attempt to use same limited ecological resource in same place and same time
  + Intraspecific competition (same species)
  + Interspecific competition (different species)
* 1. Helps determine number and kinds of species in community
* 2. Determines niche each species occupies
* 3. Cause species to divide resources
* The competitive exclusive principle
  + No 2 species can occupy same species in same habitat at same time
  + 1 species will be better at competing for limited sources and eventually exclude other species
* Dividing Resources
  + E.g. In birds, one species feed on high branches, one feed on middle, and one feed on low

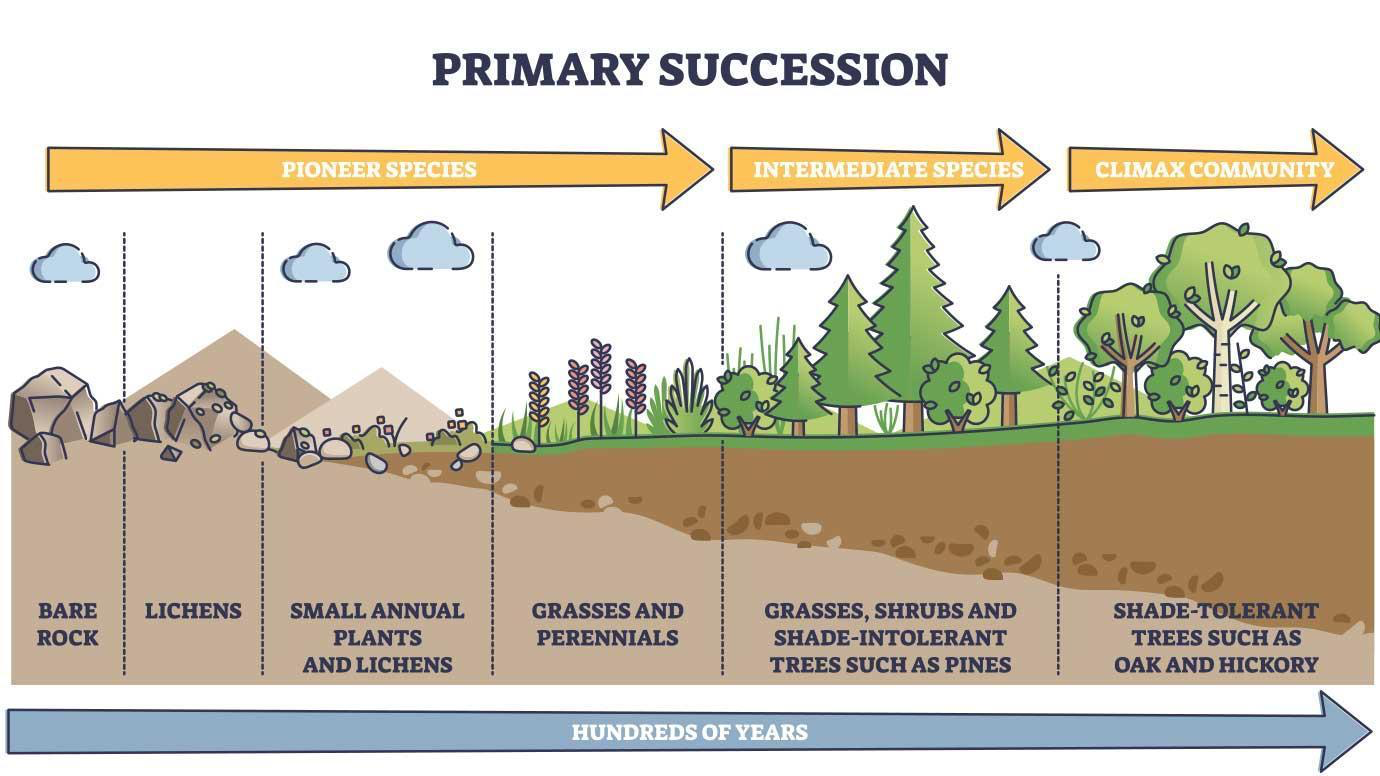
1. Predation, Herbivory, and keystone species

* Predatory and prey relationships
  + Interaction in which one animal (predator) captures and feed other (prey)
* Herbivore- Plant relationships
  + Interaction in which one animal (herbivore) feed on producers (plant)
  + Herbivores can affect both size and distribution of plants and determine places where certain plants can survive and grow
* Keystone species
  + Species that can affect the entire ecosystem
  + E.g. sea otters eat sea urchins that feed on kelp. Without sea otters, the sea urchins would eat all the kelp, destroying food and habitat for sea animals
* Symbiosis
  + Symbiotic relationships
    - Close relationship that exists when two or more species live together
      * Mutualism: (+/+) benefit each other
      * Commensalism: (+/0) one benefited, other no effect
      * Parasitism: (+/-) one organism living inside/ on other organism benefits itself and harms host

4.3 Succession

A) Ecological succession

* Series of predictable changes that occur in a community over time
* After disturbances, ecosystems change over time



* Primary succession
  + Establishment of community in area of exposed rock that does not have any topsoil, usually very slow at first
  + Pioneer species
    - First organisms to appear that grow on rock
    - Fix atmospheric nitrogen, break down rock, and add organic material to create soil
  + End of primary succession = climax community
  + Often follows:
    - Volcanic explosions 🡪 create new land or sterilize existing areas
    - Retreating glaciers 🡪 leave only bare rock behind

A diagram of a sequence of land

Description automatically generated

* Secondary succession
  + Occurs when existing communities not completely destroyed by disturbances
  + Faster than primary succession
  + Often follows:
    - Wildfire (fires can stimulate seeds to grow)
    - Hurricane or other natural disturbance
    - Human activities such as logging or farming

B) Climax Communities

* + An ecological community in the final stage of succession, in which the species composition remains relatively stable until disturbance occurs
    - Succession is not always the same path, climax communities not always uniform and stable
* Succession after natural disturbances
  + Secondary succession following natural disturbances often produce the original climax community
* Succession after human-caused disturbances
  + Secondary succession in ecosystems may or may not recover from extensive human-caused disturbances