![A logo of university of malaysia terengganu

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAAAAAAAAAP8AAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAQAAAP36AADt5/kAu7nEALm1wADo5e4AAgAJAAD+AwAA/wMAAAAAAP8BAgAAAAAAAf8AAAEBAQAAAAIAAAAAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAf8AAAAAAAD/AQAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gAAAAAAAAH/AAAA/gD///8AAAD+AP8B/gAAAf8AAAAAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAQEDAP79/wACAAMAAAACAAEBAwD//gAA/wEAAAAAAAAAAAAAAgABAAAAAAAAAAIAAAAAAAL/AAAAAAAA/gEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/Af4AAAACAAH/AAAAAAIAAAD+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gACAAAA/gAAAAAAAAD/AQAAAf8CAAAAAAACAP4AAAAAAAAAAAAAAAAAAAAAAAD+/gACAAAAAf39AAMA+wAE//wABf79AAT//AAG//0AB//8AAj/+gAK//sAC//5AAoB/AAJAPsACf/9AAb/+QAE/fkABv77AAT//AAEAP4AA//+AAMA/wAC//4AAQD/AAL/AAAB/wAAAAAAAP8BAAAAAAAAAAAAAP0A/wD9AQEA/gEEAPsBBAD6/wMA+gQGAPgBBgD3AggA9QAFAPMBBgD0AAYA9AAGAPgDBwD5AgcA+QEEAPsBBgD+AgQA/QECAP4CAwAAAgIAAAAAAP3//wAAAf8AAAD+AP8C+wAGCf4APkM3AEtOQQAiJxgABwgAAAABAAAAAv8AAAAAAAEBAQAAAP4AAAAAAAAAAAAAAAAAAAAAAAD/AgAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/////wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAAAAAAAAAP8AAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAD//gAA/foAAOjk8wC2r78Au7rEAPLu+AAA/wUAAf8EAAD/AwAAAAIAAAAAAP8BAAAAAAAAAf8AAAEBAQAAAAIAAAAAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAIAAAAAAAAA/gAAAAAAAAAAAAAAAAD///0AAAAAAP///wACAwEAAP8BAP8A/gD+//8AAQEBAAAB/gAAAAAAAP8CAAAAAAAAAf4AAAAAAAH/AgAA/wEAAAAAAAEBAQD//wEAAAAAAP8BAAABAQEAAf8AAAAAAAAAAAAAAAAAAAL/AAAAAAAA/gEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/Af4AAAACAAH/AAAAAAIAAAD+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAACAAAAAAAAAP8BAQD///8AAgAAAAH//wAB//0AAgH/AAH/AAAC/wAAAQD+AAH+/gAE//4ABP77AAT/+gAG//sACP78AAb/+wAJAvwACP78AAv//QAKAfoACf76AAj/+gAG/voABP/7AAUA/QAD//0AAv79AAL//gAC//4AAgEBAAAA/wAAAAAAAv8AAAAAAAABAQEAAAAAAPwAAAD+AQIA/gECAPwAAQD7AAIA+wEGAPkDBQD4AQYA9wIIAPX/BgDzAQYA9P8EAPQCBwD5AgcA+AMHAPoCBQD8AQQA/QEDAP8CBQD9/wAAAAIBAAEBAQD+AAIAAQEBAP7+/gD///8AAQH/AAAB/QD/AvsABAf+ADY7LQBKTUIALjAhAAYKAAAAAQAAAAL/AAEBAQD///0AAAAAAAAAAAAAAAAAAAAAAAEAAwAA//8AAAIBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wACAAAAAAABAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAD/+gAA5+HyALKtuwC5uMIA+PT+AAIABgAA/wQAAwAEAP//AQD+AQAAAAAAAAH/AgAAAAAAAAD+AAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAEBAAD//v4AAAABAAAAAQACAAEAAP8AAAD/AwAAAAAAAQEBAAAAAAAA/wIA////AAAAAAAAAAIAAAAAAAEBAgD///4A////AAEAAQACAQEA/wD/AAAAAAAAAAAAAAAAAP4BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAA/gAAAAAAAAAAAAAAAAD/AQAAAAACAAH/AAAAAAAAAgAAAAAAAAAB/wAAAAAAAAAA/gAB/v8AAgD+AAL//gAB//wABAD/AAP9+wAF/wAAAv/5AAUA/gAH/v8ACP/6AAkA+QAI//oACf/9AAkA+gAK/vwAB/37AAX+/QAGAPsABf77AAMA/AAD//0AA//+AAIA/wABAP4AAf7/AAEAAAAAAP8AAv8AAAAAAAD+AQAA/gEAAP7/AAD/AQIA/f4AAP0BAgD8AQMA/AEGAPoCAwD4AQYA9gEFAPYBCAD0AgcA9f8GAPMCBgD4AQYA+QIFAPsCBgD5AQIA/AEFAP4CBQD9AgAAAQADAAEBAgABAP8AAAEBAP4AAAAAAP4A//8AAAEBAgABAQEAAAAAAAABAAAA/gAA/Pn7AMjB0AD18vUA/PpIADE1JgAHCwAA//4BAAAC/wAAAAIA////AAEBAQAAAAAAAAEBAAAAAAD/AAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/gAAAv8AAP77AADm4vIAs668ALm2wQD49gEAAP8HAAAAAwAAAAIA////AAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAgAAAAAAAAAAAAEBAQAAAAAAAQEBAP///wD///8AAAABAAAAAAAAAAAAAAAAAP///wAAAAAAAQEBAAAAAAD+/v4AAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAAAAD+AAIAAAAB/wAAAgD/AAH//gAB/wAAAgD+AP///QAD//8AAf/7AAX+/QAC//wABgD8AAf9/AAGAf0ABf/6AAkB/gAI/v4ACAD7AAkA+gAJAPsAB/77AAX/+QAH//wABv78AAT+/QAD//4AAgD8AAL//gAAAf8AAgABAP///wAAAAAAAAABAAAAAAD/AAEA/QEBAP4BAgD+AQIA/gACAP4CAwD9AAIA+QICAPwBBQD6AgMA+AEGAPcABQD1AQUA9QAEAPUABwD2/wUA9wMJAPkCBwD4AgQA/AEEAP4CAgD/AgUA/gACAP8BAQD+AAAAAQEDAAL/AAAAAQAA/gD+AAAAAAD///8AAAAAAAEBAAAAAAAAAAAAAAD/AQABAQMAAP4AAP7/AQDRzdkA+/v7AP39SgAzNykACAwAAAD/AQAAAf8AAQEBAP///wABAQEAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAUBPAAAgAElEQVQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7/AAAAAQACAAAA+vkAAOfh8ACyrbsAu7jDAPr2AgAC/wUAAAAEAAD/AQABAQEA/gABAAABAAAAAAAAAAAAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAgIAAAAAAAD+/wAAAAAAAAAAAAAAAAD/AQAAAQEBAAD/AAD///8A////AAAAAAABAQEAAAAAAAAAAAAAAAAA////AAAAAAABAQEA////AAAAAAAAAAAAAAAAAAAAAAAC/wIAAAAAAP4B/gAAAAAAAAD+AAAAAAAAAAIAAAAAAP8BAAAAAAAAAf8AAAAAAAAB/wAAAAAAAP8BAAAAAAAAAAAAAAH/AAAAAAAAAv8AAAABAAAAAP8AAAAAAAAAAAAAAAAAAP/9AAL/AAAC//4AA//+AAP//QAC/v0ABAD+AAD9/AAHAfwABf79AAb++wAHAfoACAD9AAoA/AAJ//0AB/75AAgA/AAI/v4ABQD8AAT+/AADAPsAA/77AAX//gAD//wAA//+AAEAAAAD/gAAAgD9AAAAAAAA/wAAAQEAAP0AAAABAQIA/wACAP3/AQD+AgAA/QECAPsAAgD7AgQA/gADAPsCBAD6AAYA+QEEAPgBBgD2AAMA9QIIAPUABAD2/wQA+QMHAPkABAD8AwcA+wEFAPwCAwD6AAAA/wMEAAEAAwAAAgEAAQECAP7/AQABAAAAAAACAP4BAAAAAP4AAAAAAP///wAC/wIAAAAAAP8BAAAAAAAAAAAAAAAAAgAA//4AAP8DAAEAAAD+/gYA1dPfAPv9swD//wEAMzcoAAkPAAAAAAEAAQEAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAP///wACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAP/+AAD5+AAA3trmALu1wQC9uccA+/gBAAAAAwAAAAIAAAAAAAAAAAD///8AAAD/AAICAgAAAAAA////AP///wAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAAAAAAAAQEBAP///wAAAAAAAQEBAAAAAAAAAAAAAAAAAAEBAQD/AP4AAAAAAAEBAAAAAAAAAAAAAAAAAAAAAQAAAAD/AAAAAAAAAP8AAAAAAAAAAAAAAAEA////AAEBAQD///8AAQEBAAAA/wAAAAAAAQEAAAAAAAD///8AAAAAAAEBAwD//v0AAAAAAP8A/gAAAAAAAQEBAAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH/AAAAAAAAAAAAAAIAAAAB/wAAAgD/AAD//gABAP4AAf/+AAL/AAAA//4AAf/9AAT+/gAD//0ABP/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AAAACAP4AAAD/AP0A/QAAAfoAGRwUAAICAAAAAAAAAQEBAP///wAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAP8AAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/wABAQAA/wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8BAAAAAAAB/wAAAAAAAAAAAAD+AQAAAAD+AAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAIAAP/+AAEABAADAQEA+/j5AOfk6gATFg4AICUZAAAB/gAB/wIAAAH+AAAA/gABAQMAAAD+AAwLCwAbGhgADhANAAAA/AAA//YAAPnsAPnr2wD26tsABvz0AAP/+AABAfoAAf/+AP8B/gAB/wAAAQEBAP8A/wD///8A/wEFAPwBCAD5AQ0A/QkXAAwXKgAADRwAAAMPAAD9BAAA+fsA9tTUANzExQD86uoADv38AAYAAQACAAEAAAAAAAEBAwAAAP4AAAAAAP//AgAAAQAA/QADAPr/BAD3AwkA8QAJAO4BCADzAgoA9wIGAPwBBQD9AwIAAAACAP4BAAAA//8AAAEAAAAAAAAAAAAAAQEDAAAAAAAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAgAAJSYgAB8gHgD//gAA/gECAAL/AAAB/wAAAAAAAP8BAAD+AQAAAv8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AgAB/wIAAPwBAOjq5wDg3+IA+/r8AAH+AQD/AAIAAQEBAAAAAAABAQEA///9AAAAAAD+AQAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAQH/AP8A+wAXGhEAQ0c5ABUZEAABAf4AAAL/AAAAAAAAAf4AAP8CAAAAAAAAAAAAAAH+AAH/AAD/AAIA/gEAAAAAAAACAP4AAAAAAP4B/gAAAP8ADQsHAAECAAD/AAAA/wEBAAH//wAAAAAA/wD/AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAfojQ0AAAIABJREFUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAP8A//4CAO7t8wDf3OUAEhMPABEVCgD///4AAf//AP8BAgAAAAAAAQEBABMTEQAYGBYABAMAAAEA+QAA/PIA//HkAPLo2QAC++wABQH2AAP/+gAB//wA/wH/AAH+AAD/AAAA////AAEBAwAAAQIA/gEIAPz/CAD8BA8ACxUmAAYUIwAABRQAAAAKAAD7/wAA6u0A2cTGAO/b2gAM+/oABv7/AAQAAQADAQEAAf8AAAAAAAAAAAAAAAAAAAAAAAD9/wEA+wEDAPkCBQD0AwgA8AAHAO8ACQD1AwgA+gMIAPwCAgD/AQAA/gAAAAEAAAAAAP4AAf8AAP7//wAAAAIAAgIBAAH/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wABAQEACAwFAAgAAAAA/wAA/wEAAAH/AAABAAAAAAAAAP8AAAD/AQAAAf8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/gAA/vsAAAUGAAAAA/4A///9AAEBBAAA//4AAAADAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEB/wD//wAA///9AAEC/wAGBwIACw8GABATAAABAgIA/wIAAAAAAAAAAAMAAf8AAP8BAAAAAAAAAAADAAAAAAAAAAAA/wEAAAAAAAAB/wMAAAAAAP8BAAAAAAAAAQAAAP8AAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wEAAAECAP77AQDq5u4A4t/oAA0QIwADBgUA///+AAD//gAAAAAADxEOABoaGgAKCwcAAgD7AAD+9QAA9+cA9enaAPnw4QAG/PIAA//6AAIA/QACAf8AAf/+AAAAAgD///8AAAAAAP8A/wAAAQMA+f8FAPn/DgAHDiAAEBorAAAKGQAAAwwAAPsBAADx9gDmy8wA5s7QAAby8wAH+/0ABf8AAAH/AAAB/wAAAAAAAAAA/gAAAAIAAAAAAP8AAgD9AQMA+gIFAPUCCADwAQkA7f8HAPQDCAD3AwcA/AIFAP8BAgAA/wIAAQIBAAIA/gD+AAAAAAAAAAIAAQA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B/wIAAP4BAAH/AAAB/wAAAAD+AAAA/gAAAP4AAAD+AAAAAAAAAAAAAv8AAAAAAAACAgIA/wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AQAA/gEAAAAAAAAAAAAAAAD+AAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAC/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAP4AAAD+AAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAP4BAgD+/gQA/wEKAPn/DwDm7AIA1t33AOzzCAD6AA4A/QAJAPz/BQD9AQgA/gMKAP0DDwALFCQACBYkAAAGEwAAAQgAAP0AAADu8gDbx8gA5dDRAAb2+AAH/f4ABQAAAAP//gAAAAAAAf8AAAAAAAABAQEAAAACAP3/AQD7AAMA+AIFAPUCCgDv/wcA8AAJAPYECQD5AwUA/QMDAP8BAAABAQEAAQEBAP///wD///8A////AAAAAAAAAP4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAA/gAAAAAAAAAAAAAAAAAAAP4AAAAAAAAA/gD/AP4AAQEBAAAA/wAA//4AAAAAAP//AQABAQEAAAAAAAAAAAAAAAAAAAAAAP8BAAAAAAIA////AAD//wD/AAEAAAAGAAD/DAD0/PcA3OLwABkW+gAPKQ4AAwT5AAABAQD9/wAA+QAMAAUOHwALFycAAAkbAAABDAAA/QMAAPf6AO/V1ADfxsgAAOvtAAr+/QAF/wAAAP79AP//AAAAAAAAAAEAAAAAAAD///8AAAEDAP0BAwD3/wUA9gEIAO4BBgDuAQkA8wMHAPYDBwD7AQQA/QEBAAEAAwABAQAAAAABAAAA/wAC/wAAAAAAAAAC/wAAAAEA////AAAB/wAA//4AAAABAAAAAAAAAP8A/gECAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAB/wAPDw0AFRURAAAA/AAAAf8AAAAAAAEBAQD///8A////AAAAAAAAAAAAAAAAAAD/AgAA/wIAAQEBAAAAd4OGqAAAIABJREFUAgD/AAEA/gAFAP0ACQD7/w4A6vEEANne+ADm7AQA+wETAPoADgD7AA8A+wYWAAoWJgAFEyQAAAYSAAABBwAA+f4AAOruAN/JywDs2NkACfn6AAT8/QAE/gAAAgAAAAAAAAAAAAAAAQEBAAEBAQAAAQMA/QEBAPoABQD7BgoA9QQKAPIDCwDyAQgA9wMJAPsCBQD9AwMAAAAAAP4BAAAAAAAAAAAAAAAAAAAAAf4AAAH+AP7/+wAMDQkACwwIAAEB/wABAgAAAAAAAAAAAAABAQEAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAAAAAAACAAAAAgAAAAAAAAAAAP4A/QAYGhUANTgxABgbFgAAAPwAAAH/AAAA/gAAAAAAAAAAAAAAAAAAAP4AAAD+AAEA/gABAP4AAf8AAAH/AAAA/v8AAv8CAAABBgD+/wsA+f4RAODn/QDa4PkA8PcQAPcAEwD1ARAABxImAAsXKQAABxMAAAAJAAD9AgAA9/kA5sbJAN7ExwAI9vgACv3/AAT+/wAB//0AAf8AAAH/AAAA/wIA//4BAP7/AQD+AQEA+wEDAPkDBQD0AQkA8AAHAO7/BwDzAgkA+gIGAP0DBQABAwMA/wEDAAAAAAAAAAAAAQEBAAEB/wABAQAAAAH7AP8A+gA6PTQALjEoAAMFAAAAAP4AAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wD+AQAA/gEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH/AAAA/gAFBgIALi8pADc4MAABBP0AAAD8AAAB/wAAAAAAAAAAAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAEAgIA//8AAP/+AwD+AAcA/f8OAPD3CgDV3fcA2uT/APX/GAABCyIADRktAAAPIAAAAxAAAP8GAAD4/AD62t8A3cbHAPvn5wAI/PwABP/+AAQA/wAB/wAAAgABAAAAAAAAAAAAAAAAAAAAAAD9AQIA+gIFAPUBBwDwAQcA7AAHAPQCCgD6BQkA+gIDAP4AAQD+/QAA////AP///wD///8A/v7+AAAB/wD9AP0A/gH7ACcrHwA6PDEAFhcRAAAB/QD///0A/wD+AAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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A/gEFAAEDAwD+AAIAAQEBAAEBAQABAQEAAQEBAAAB/QD/APoAExcNADk9NAAjJx0ABAcAAAADAAACAgAAAP//AAAAAAAAAAAA////AP8BAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wD//gAA////AP///wD///8A////AP///wD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAA/gEAAAAAAAAAAQAAAAEAAAYKAAAuMSgAMzcuAAQF/wAAAfwA///9AAAA/gAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAEBAQABAQEAAQEBAP8ABAD9AQUA+QAGAPT+BwD1AAkA+gIKAPkBBAD9/wMA/gEBAP8AAgD/AQAA/QECAP0BAgD4AgQA9AEHAO//CADwAAgA9QIHAPsFCQD7AAMA/wEBAP3/AQAAAAAAAQEBAAAAAAAAAP4AAAH/AP//+wACBf4ANDgvADI2KgAKCwAAAQEAAAEBAAD/AQAAAAAAAAABAAAAAAAAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALBChjIAACAASURBVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAA/wAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAEBAwACAAAAAAAAAAAAAAAAAAAAAQEBAAEBAQABAQEAAv8AAAL/AAAAAP4AAAD+AAAAAAD+/v4A////AAAAAAD///8AAAAAAAABAAAAAAAAAAAAAP8AAAD+AP8A/wAAAP8AAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAP8AAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AQAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAP4AAAAAAP//AAD//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAAAf8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAIAAAEBAAAXGQsAODoxACIkGgAAAfsAAAD+AAAB/wABAQEAAQD+AP///wAAAAAAAAAAAAAAAAD+AP8A/wEAAAAAAgD//wEA/gACAP0BAQD8AQQA+QMHAPICCQDx/wgA8wIJAPkECgD7AgMA/QECAP8CAQD+AAIA/QEBAPkBBQD4AgkA9QQLAPABCQDzAQkA+AQIAPkBAgD+AgMA/gAAAAAAAAABAQEA//8BAAEBAQAAAf8AAAD8AAAB+wAjJBsAOTowABgZDgACAwAAAAEAAAAA/wABAQEAAAIBAAD/AAAAAAAA////AAAA/gAAAf4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAQEBAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP4AAAAAAAAA/gAAAf4AAAAAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAr2B+zgAAIABJREFUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAABAQAAAAD/AAABAAABAAEADhMBADxDLwAuMSgAvLnCALi0vQDr6vAA//0CAP79AQABAAcAAP8BAP8AAgAAAAIAAgADAAEBAAD/AAAAAP//AAABAAAAAAAAAP/+AP8CAAABAAAAAAAAAAD//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/wAA//4AAAH/AP8B/gD///8AAf/+AAAB/gAAAv0A+wH6AAED/QAWGRMAPkA3AEFEOgAeHxUAAgUAAAMEAAAAAgAAAAIAAP8A/wABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAQEBAP///wAAAAAAAP8AAP//AAAAAAAAAAAAAAAB/wAAAAAAAAAAAAAA/gAAAAAAAQEAAAAA/wAAAf8AAAAAAAAA/gAAAP4A////AAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gAAAAAAAgEEAAAAAAAAAP4AAAAAAAEAAQAAAQEACAkAADU2LgDb194Au7fHAAH/AgAAAAIAAP8BAAEBAQD///0AAQEBAP4BAAD///8AAQABAP8A/AD/APwAAQL8ADY6MwA8PzQACQ0BAAIDAAAAAgAAAQEAAAAAAAAAAAEAAAAAAAAAAgABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAD///8A/gH+AAAAAAAAAAAA////AAAAAAD+AQAAAAEAAAEAAAAAAAEAAAAAAAAAAAD+AP8AAQEAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+AAAAAgAAAAAAAQEBAAAA/gAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAABAQAAAAAA/gAAAAAAAAAAAAAAAAAAAAAAAAABAQAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAP///QACAwMA/gEAAAYJAAATGAcAVFhFAElKQwDU09oAyMfLAMvIzwD19PgA+vn+AAIABAABAAMA/wACAAAAAgAB/wAAAAAAAP8AAAAA/wIAAQEBAAAAAAAAAAIAAAAAAAAAAAAAAP4AAAACAAAA/gAAAAAAAAAAAAAAAAAAAAAA/wD9AAABAQAAAP8A/wH/AAAA/AAAAv4A/v//AAIEAAANDQYAHiIkAEZHQQArLSYAFxkLAAEFAAADAwAAAQIAAP8BAAABAQAAAAD/AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAEAAAAAAAAAAP4A/wD9AAAA/QAAAQIA/wEDAAH/AAAAAAAAAAAAAAAAAAAAAP4AAAAAAAAB/QD/Af0AAAH9AAAA/wD//wAAAAAAAAIBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQD/AAAA/wMAABoeDQA5PTQA2treAOHd6gAB/wEAAAACAAABAwACAgEA///+AP8BAAD///8A/wD+AAAB/QAAAPwAJikfAEFEOQAZGw4AAQEAAAAAAAAAAP8AAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAAAAAAEBAQAAAQAA//8AAAAB/gAAAf4AAAD8AAABAwABAQMAAAAAAAAAAAAAAAAAAQEAAAEBAQD///8AAAAAAAAAAAD///8AAAAAAAAA/AABAf0AAAD+AAAAAAAC/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAAAAAP4A///9AAAA/gAAAAMAAAEDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AP8AAAAAAAAAAAAAAAAA/AAAAP8AAAD+AAAB/gD+/gAAAwIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAAIAAAAAAAD/AAAAAAAAAAEAAAAAAAD/AAAA/wD/AAEAAgAAAAAAAQH/AAABAQAAAAAABQkAAA8IAgA6PygANTkoAPf0WgDa2t0A3NvgANLP0wDm5eoA+Pf7APLy9QD//v8A//8BAAD/AgD/AAAAAgICAAAAAAAA/wIAAAAAAAAAAAAAAf4AAP8CAAAB/gD///8AAAAAAAAAAAAAAP8AAAH+AP8AAAABAf4ABggDAA4PCwAPEg8AKywoACgqJwAkJR4AFhYQAAUGAAABBQAAAQEAAAIEAAD/AAAA/wAAAAEB/wAAAAAAAAAAAP///wABAQEAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAP4AAQL8AP8B+wAAAf8A/wACAP8BAAAAAAIAAAAAAAAAAAAAAP4AAAAAAAAA/AD/APsAAQH9AAAA/gAAAAAAAAAAAAAAAAABAQEAAAAAAAAA/gAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAA/wIAAAAAAAABAAAAAP8AAQEBAAABAAAtMCcAODwxAOrouQD39fcAAAADAAEBAwAAAAIAAAEAAAAC/wD///8A///9AAAB/QANDgUANTovACgqIQABBAAAAQIAAAEB/wAAAQEAAAAAAP8AAAAAAAAAAQAAAAAAAAD///8AAAAAAAEBAQAAAAAAAAAAAAAAAAAAAP4AAAD/AAAAAgAAAAAAAQEBAP//AAAB/gAAAQEAAP7+/AD+APwA/gH/AAEBAAD+/wIAAAACAAAA/gAAAAAAAf8CAP//AAD/Af4AAAAAAAH/AgD/AP0AAAAAAAAA/gD/AfsA/wD8AAAA/wAAAAAAAAAAAAH/AAAAAQAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gD//wEAAQABAP7+AAAAAf4AAAH9AP8AAAAAAgIA/wD7AAAAAgAB/wAAAAAAAP8B/gAAAAAAAAAAAAAAAAAAAAAA/wD/AAIAAwD///0AAAAAAAAA/AD/APkA/AD7AAAAAAABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAP///wABAgAAAAAAAAH+AQABBgAABgQAAAcIAwA0EiYAMTQmAFNWRgD8/AAA7er0ANzc3gD+/gAA+/r8AObj5gDR0dEA9/f3AAAAAgAAAAIAAAAAAAAA/gD+AQAAAv8AAAAAAAAAAAAA/gH+AAQBAgAUFBQAMDEuAA4RDwAEBAIAExMRACIjHgAFBwAAAQQAAAECAAAEBQAAAgIAAAECAAAAAAAA/wEAAAAB/wABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAP4B/gAAA/wABAX9AAYJ/gAA//wAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB/QD///4ABQYAAAEC/QABAQAAAAAAAP///wAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wABAAEAAAAAAAAAAAABAQEAAAAAAAAFAAAPEQIANTgtAN3a3QDS0dcAAQAAAAAA/wAAAAAAAAAAAP4BAAAAAP4AAAAAAAEC/gAyNyoAOTwxAAsPAwACAwAAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAAAAAAD/AQAAAAEAAAMGAgAGCgEAAgL9AAD//AAAAAIAAAAAAAAAAAAAAAAAAf8AAAAAAAD/AQAAAAAAAAH/AAABAQEAAAAAAP8A/QD/Af8AAQUBAAIF/wD+AQAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAEAAAAAAAMAAAADBf8AAwf+AAYKAAAA//sAAQEBAAAAAAAB/wIAAAD+AP8BAAAAAP4AAAACAAAAAAD///8AAQEBAAH//QAAAAAAAAAAAAAB/gD+Af4ABwgBAAAB/QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAf////8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEB/wAAAAAAAP8CAAAAAAAAAQAAAAAAAAAAAAAAAAAA////AAEBAQD///8AAAAAAAAAAAD///8AAQEBAAAAAAAAAP4AAAACAAAAAAABAQEA//8AAAD+AAAAAAAAAP8AAP//AAAAAAAAAf4AAP7+AAD//wAAAP8AAAD+AAD+/gAA//8AAAAAAAAAAAAA/wAAAAABAAAAAAAAAf8AAP8BAAAAAAAAAAAAAAH/AAD/AQAAAwMAAAABAAADAwAA/gEAAAEBAAAAAAAA/wEAAAEBAAAAAAAAAQIAAAEBAAAAAP8AAAAAAAEBAQAA/v8AAAAAAAAC/wD///8AAAAAAAAAAAABAQMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP4AAAAAAAAAAAAAAAIAAP7/APz8AADu7PUA6eXsAPz8/wAB/wIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gAAAf0ACgwHABscFgAKDgcAAAIAAAAA/wABAf8AAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQABAAD/AAD//gAA+vf/AOno7gDv7PIA//8AAAAAAgABAQEA////AAAAAAD/AAAAAAAAAAMEAAAWFxAAExcPAAMDAAAAAwAAAQH/AAEBAQAAAAAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gAAAAAAAAACAP///wAA/gEAAP0AAOfm7gDs6+8A/vsBAAAAAQAAAAIAAQEBAAAAAAABAQEA/v7+AAEBAQD///8AAAAAAAAAAAAAAAAAAQEBAP///QAAAP8AAAP9ABsfGAAREw0AAwMAAP8AAAABAf8AAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAf8BAP/8AADl5OwA7u3xAP38AgAB/wIAAgICAP///wAA/wIA/wD9AAAA/gAAAAAAAAACAAD/AgAAAf4AAAAAAAL/AAABAQEA/gEAAP///QAAAf0ADhALABscFgAHCQMAAAIAAAAAAAAAAgAA////AAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAf////8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEB/wD///8AAf8CAAAAAAD/AQEAAQEAAAAAAAAAAAAA////AAEBAQAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAP4AAQEBAAAAAgD///8AAAAAAAAAAAAB/wEAAAIAAP///wAAAAAAAf8BAP//AAAAAAAAAAAAAAAAAAAB/gAAAAAAAAAAAAAAAAAA/gAAAAAAAAAAAQAAAv8AAP4AAAAAAAAAAAEAAP/+AAABAQAAAQIAAAAAAAABAQAA//8AAP8BAAABAQAA//8AAAAAAAAAAP4AAQEBAAAAAAAAAAAAAQH/AP///wAB/wIAAAAAAAAC/wD///8AAAAAAAAAAAABAQMAAAAAAAAAAAAAAAAA////AAAAAAABAQEAAAD+AAAAAAAAAAAA//8BAAD+AQD//gAAAAAAAP/+AAAAAAAAAgAAAP4BAAAA/wAAAAEAAAAAAAAAAAAAAv8AAP4BAAAC/wAA/gEAAAECAAABAQAAAAL/AAEBAQAAAP4AAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gAAAAAAAAACAAAAAAAAAAAA////AAAAAAAAAAAAAf8AAAAAAAAAAAEA//8AAP79AAADAAAA//8AAAAAAAAAAAAAAAAAAAAAAAD+AAAAAAAAAAABAAAAAAAAAgMAAAACAAABAQAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gD+/v4AAQEDAAAAAAAB/wEA//8AAP79AAAAAAAAAv8AAP4BAAAC/wAA/f8AAAIAAAD+AAAAAwEAAP3/AAADAQAA/gEAAAL/AAD9/wAAAwEAAP4BAAAC/wAA/gEAAP8BAAABAv8AAgIBAAAAAAAAAP8AAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAf8BAP//AAD+/QAAAAAAAAD/AAD//wAAAgAAAP4AAAADAQAA/gAAAAIAAAD+AQAAAv8AAP3/AAADAQAAAAAAAAEBAAD//wAAAAAAAP0AAAADAAAA/gEAAAMBAAD/AgAAAQEAAAAAAAAAAgAA////AAEBAQD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAf////8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAIAAQAAAAAAAAAAAAAAAAD/AQAAAAAAAAEB/wAAAAAAAAAAAAAAAAAAAAAA////AAAAAgABAQEAAAD+AP///wD/AQIAAQABAAEAAAAAAAAAAAAAAAAVhlPpAAAgAElEQVQAAAAAAAAAAAAAAAAAAAD+AP8AAgABAP///wABAQEAAAAAAP//AAAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AQAAAf8AAAAAAAD/AQAAAAAAAAH/AAAAAAAAAAAAAP8B/wAAAAAAAAAAAAAAAAABAQEA////AAAAAAAAAAAAAQEBAP///wABAQEAAAAAAP///wAB/wAAAAAAAP8BAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAA/gD//wEAAf8AAAAAAAD/AQAAAQEBAAAA/gAAAAAA//8BAAAAAAD//wEAAP8AAAAAAAD//wAAAgAAAP8BAAAAAAAAAAAAAAAAAAAAAAAAAQAAAP8AAAABAAAA/wEAAAAAAAAAAP4AAAAAAAICAgAA/wAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAA/gAAAAAAAAACAAAAAAAAAAAAAAABAP/+AAAA/wAAAQEAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAICAAD///8AAQEBAAAAAAAAAAAAAAAAAP8AAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAABAQEAAAAAAAAAAAD///8AAAAAAAAAAAABAQEA/v7+AAAAAgAAAAAAAf8AAP8AAAAB/wAA/wEAAAEAAAD/AAAAAf8AAP8BAAABAAAA/v8AAAIAAAD/AQAAAgEAAP7/AAABAAAAAAIAAP//AAABAf8AAAAAAAAAAAAAAQEA/wD/AAH/AAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wD///8AAf8AAAEBAQD+/gAAAAEBAAAAAAAAAAAAAQAAAP8AAAAA/gAAAAIAAAD/AAAAAQAAAf8AAAACAAAA/wAAAAAAAAD/AAAAAQAAAAAAAP8AAAABAAAA/wAAAAD//wAAAgEAAQEAAAEBAAD///8AAAAAAAEBAQD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAA/wAAAAAAAAAAAAAAAAD///8AAAAAAAEBAQAAAAAAAAAAAAEBAQD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAABAAEAAAAAAAEBAQAAAAAA////AAAAAAD/AQAAAAAAAAAAAAAB/wEAAAAAAP8B/wAAAAAAAAABAP8BAAAAAP8AAAAAAP8BAQAB/wAA/wH/AAAAAAAAAP4AAQEBAAAAAAAAAP8AAQEAAP///wABAQMAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAgAAAf8AAAAAAAAAAAAAAAAAAAEBAP8A/wAA//4AAAEAAAAAAgACAgAAAAAAAAEAAAD/AAAAAAAAAAEA/wAAAAAAAAAAAAEAAAABAQEAAP//AAAAAAAAAAEAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAA////AAABAQAAAQAAAP/+AAAAAAD/AQAAAQEBAP8BAAAAAAAAAf8BAAAAAAAAAP8AAAAAAP//AAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEBAQAAAAAAAAAAAP///wAAAAAAAQEBAAAA/wAAAAAAAAEAAAEAAAAAAAEAAQAAAAAA/wABAAAAAAABAAEAAAAAAP8AAgAAAAAAAQABAAAA/wD/AAEBAAAAAAAAAQEBAAAA/wAAAAAAAAAAAAAAAAD/AP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQD///8AAAAAAAAAAAABAwAAAAD/AAAAAQAAAAAAAAD/AAEAAAAAAgEAAAAAAAAA/wAAAAAAAAABAAAAAAABAgAA////AAH/AQAAAAAA/wH/AAEAAAAAAAEAAQAAAAAAAQAAAAAAAQEAAAAAAAABAQEAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAf////8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**UNIVERSITI MALAYSIA TERENGGANU**

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**CSM3023 -PEMBANGUNAN APLIKASI BERASASKAN WEB**

**BANCHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS**

**LAB 3 – JSP: Scriplet, Page Directive & Include Directive**

**SEMESTER 2 2023/2024**

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**PREPARED FOR:**

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**PREPARED BY:**

NUR EZREENA SHUHADA BT EMRAN

S66467

**Task 1: Passing Data from Main JSP’s Page to Other JSP’s Page**

**memberRegister.jsp**

|  |
| --- |
| <%--  Document : memberRegister  Created on : 17 Apr 2024, 2:41:32 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>JSP Page</title>  </head>  <body>  <h1>Passing data from main JSP's page to other JSP's page</h1>  <form id="memberForm" action="memberProcessing.jsp" method="post" onsubmit="return checkICNo()">  <fieldset>  <legend>Member Registration</legend>  <label for="invoiceno" style="margin-bottom: 10px;">Ic No</label>  <input type="text" id="icno" name="my\_icno" size="15" placeholder="E.g. 020428451997"><br/><!-- comment -->    <label for="name"style="margin-bottom: 15px;">Name</label>  <input type="text" id="name" name="my\_name" size="45" placeholder="Key in your name"><br/><!-- comment -->    <p><input type="submit" id="btnsubmit" value="Submit"/>  <input type="reset" id="btncancel" value="Cancel"/>  </p>  </fieldset>  </form>  </body>  </html> |

**memberProcessing.jsp**

|  |
| --- |
| <%--  Document : memberProcessing  Created on : 17 Apr 2024, 3:24:02 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Lab 6 - Task </title>  </head>  <body>  <h1>Passing data from main JSP's page to other JSP's page</h1>  <fieldset>  <%  //define variable  String myIC = null;  String myName = null;    //user request.getParameter() method to retrieve data from main form  myIC = request.getParameter("my\_icno");  myName = request.getParameter("my\_name");  %>  <!--display output-->  <p>Thankyou for registering in this event..!</p><!-- comment -->  <p>This is your details</p><!-- comment -->  <p>IC no : <%=myIC%></p>  <p>Name : <%=myName%></p><!-- comment -->    </fieldset>  </body>  </html> |

**Output:**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Reflection**

1. How do you want to submit specific information from one form to next form?

You can use JSP to move particular data from one form to another by applying the "action" element in the form tag and transferring the data using HTTP request methods like GET or POST.

1. What happened if the field name you specify in request.get Parameter(“field\_name”) in second page is different from the fieldname you defined in first page?

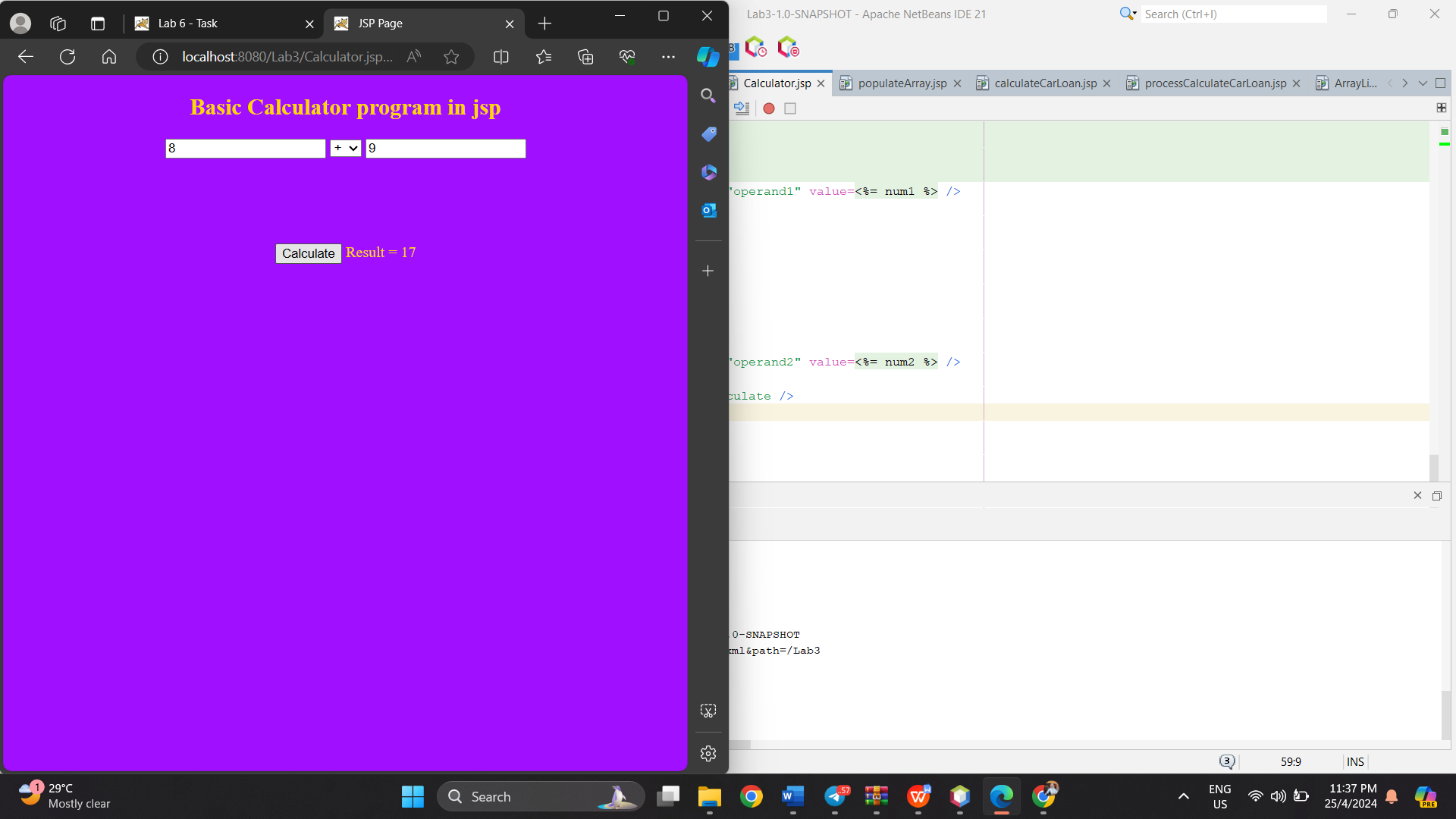
Considering that the field name in the request was provided.The value for that parameter will not be received appropriately since the field name provided on the first page and getParameter("field\_name") on the second page are different. You can also expect null or an empty string as a response. Field names on different pages must match in order for data to be fetched and processed effectively.

**Task 2: Using Mathematics Operations in JSP**

**Calculator.jsp**

|  |
| --- |
| <%--  Document : Calculator  Created on : 17 Apr 2024, 3:44:08 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>JSP Page</title>  </head>  <body bgcolor = "#a00FFF" text="gold">  <center>  <h2>Basic Calculator program in jsp</h2><!-- comment -->  <form method ="get" name="f1">    <%  String num1 = "0",num2 = "0";  int result = 0;  String op = "+";    char opchar = op.charAt(0);  if (request.getParameter("op") !=null){  op = request.getParameter("op");  opchar = op.charAt(0);    num1 = request.getParameter("operand1");  num2 = request.getParameter("operand2");    switch(opchar){  case'0': result = Integer.parseInt(num1) + Integer.parseInt(num2);  break;  case'1': result = Integer.parseInt(num1) - Integer.parseInt(num2);  break;  case'2': result = Integer.parseInt(num1) \* Integer.parseInt(num2);  break;  case'3': result = Integer.parseInt(num1) / Integer.parseInt(num2);  break;  case'4': result = Integer.parseInt(num1) % Integer.parseInt(num2);  break;  }  }  %>  <input type="text" size="20" name="operand1" value=<%= num1 %> />    <select name = op size 1>  <option value ="0" >+</option>  <option value ="1" >-</option>  <option value ="2" >\*</option>  <option value ="3" >/</option>  <option value ="4" >%</option>  </select>    <input type="text" size="20" name="operand2" value=<%= num2 %> />  <p><br><br><br><br>  <input type = submit value=Calculate />  Result = <%= result +""%>  </form>  </body>  </html> |

Output:



**Task 3: Table Array**

**populateArray.jsp**

|  |
| --- |
| <%--  Document : populateArray  Created on : 17 Apr 2024, 4:43:45 pm  Author :Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Array</title>  <style>  table {  font-family: arial, sans-serif;  border-collapse: collapse;  width:50%;  }  th {  border: 1px solid #dddddd;  text-align: center;  padding: 8px;  background-color: #FFE4B5;  }  td{  border: 1px solid #dddddd;  text-align: center;  padding: 8px;  background-color: #FFFACD;  }    </style>  </head>  <body>  <h1>Read Java Array and Populate it into HTML's table</h1>  <table>  <tr>  <th>Salesman</th>  <th>Jan</th>  <th>Feb</th>  <th>Mac</th>  </tr>  <tr>  <td>Salesman 1</td>  <td>2500</td>  <td>2100</td>  <td>2200</td>  </tr>  <tr>  <td>Salesman 2</td>  <td>2000</td>  <td>1900</td>  <td>2400</td>  </tr>  <tr>  <td>Salesman 3</td>  <td>1800</td>  <td>2200</td>  <td>2450</td>  </tr>    </table>  <p>&COPY; Nur Ezreena</p>  </body>  </html> |

**Output:**

A screenshot of a computer

Description automatically generated

**Task 4: Perform Calculation of Car Loan**

**calculateCarLoan.jsp**

|  |
| --- |
| <%--  Document : calculateCarLoan  Created on : 24 Apr 2024, 3:55:55 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Car Loan Calculator</title>  </head>  <body>  <h1>Perform Car Loan Calculation</h1>  <form action="processCalculateCarLoan.jsp" method="post">  <fieldset>  <legend>Loan Calculation</legend>  <label for="loanAmount">Loan Amount: </label>  <input type="number" id="loan-amount" name="loanAmount" required>  <br> <br>  <label for="loan-period">Period: </label>  <select id="loan-period" name="loanPeriod" required>  <option value="3">3 year</option>  <option value="4">4 years</option>  <option value="5">5 years</option>  <option value="7">7 years</option>  </select><br><br>  <input type="submit" id="btnSubmit" value="Submit"/>  <input type="reset" id="btnCancel" value="Cancel"/>  </fieldset>  </form>  </body>  <footer>&copy2024 - Ezreena</footer>  </html> |

**processCalculateCarLoan.jsp**

|  |
| --- |
| <%--  Document : processCalculateCarLoan  Created on : 24 Apr 2024, 3:56:52 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Car Loan Result</title>  </head>  <body>  <h1>Perform Car Loan Calculation</h1>  <%  // Retrieve parameters from the request  String loanAmountStr = request.getParameter("loanAmount");  String loanPeriodStr = request.getParameter("loanPeriod");  // Parse parameters to integers  int loanAmount = Integer.parseInt(loanAmountStr);  int loanPeriod = Integer.parseInt(loanPeriodStr);  // Calculate annual interest rate based on loan period  double annualInterestRate;  if (loanPeriod < 5) {  annualInterestRate = 0.028; // 2.8% annual interest rate for loan period less than 5  years  } else {  annualInterestRate = 0.045; // 4.5% annual interest rate for loan period 5 years or  more  }  double monthlyInterestRate = annualInterestRate / 12;  int totalMonths = loanPeriod \* 12;  // Calculate monthly payment  double monthlyPayment = (loanAmount \* monthlyInterestRate) / (1 - Math.pow(1 +  monthlyInterestRate, -totalMonths));  // Calculate total loan with interest  double totalLoan = monthlyPayment \* totalMonths;  // Display result  %>  <fieldset>  <h1 style="color: blue;">Details of car loan:</h1>  <p>Loan Request: RM <%= loanAmount %></p>  <p>Period of payment: <%= loanPeriod %> years</p>  <p>Total Loan (+interest): RM <%= String.format("%.2f", totalLoan) %></p>  </fieldset>  </body>  <footer>&copy2024-ARIF HAIKAL</footer>  </html |

**Output:**

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**Reflection**

1. How you want to retrieve data from previous page?

The request object in JSP can be used to retrieve data from the previous page.

1. Where the construction of logic occur for calculating Total Loan ( + interest) ?

In a JSP (JavaServer Pages) application, the logic for calculating the total loan amount (interest included) is typically built in the Java code incorporated in the JSP file. This logic is implemented in the Java code section by doing calculations based on the loan amount, interest rate, and any other relevant data.

**Task 5: Using JSP Page Directive to Call Java API**

**ArrayList.jsp**

|  |
| --- |
| <%--  Document : ArrayList  Created on : 24 Apr 2024, 4:17:07 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <%@page import="java.util.ArrayList"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Use Java ArrayList</title>  </head>  <body>  <h1>Use JSP Page Directive</h1>  <%  ArrayList<String> studentList = new ArrayList<String>();  studentList.add(0, "Mohamad Azam");  studentList.add(1, "Peter Chong");  studentList.add(2, "Rahimah Mansor");  studentList.add(3, "Sri Devi");  studentList.add(4, "Ng Hue Ween");  studentList.add(5, "S. Nagarajan");  out.println("<p><font color=\"blue\">The number of records in ArrayList are " +  studentList.size() + "</font></p>");  for (int i=0; i< studentList.size(); i++) {  out.println("<p><font color=\"blue\">Record " + (i+1) + " is " + studentList.get(i) +  "</font></p>");  }  %>  </body>  <footer>&copy2024 - Ezreena</footer>  </html |

**Output:**

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**Reflection**

1. What you have learnt from this exercise?

I learnt about utilize java ArrayList in JSP.

1. Write a sample syntax how you want to use java Math object in JSP?

[%@page import="java.lang.Math"%](mailto:%25@page%20import=%22java.lang.Math%22%25)

1. List and write a sample syntax for THREE (3) of JSP page directive.

<%@page import="java.util.ArrayList"%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@page language="java" %>

**Task 6: Use JSP Include directive for JSP Page**

**MainPage.jsp**

|  |
| --- |
| <%--  Document : MainPage  Created on : 24 Apr 2024, 4:24:46 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <%@ include file="HeaderPage.jsp" %>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Main Page</title>  <style>  p {  color: red;  }  </style>  </head>  <body>  <p>Java Server Page (JSP) is a technology for controlling the content<br/>  or appearance of Web pages through the use of servlets, small<br/>  programs that are specified in the Web page and run on the Web server<br/>  to modify the Web page before it is sent to the user who requested it</p>  </body>  <%@ include file="FooterPage.jsp" %>  </html> |

**HeaderPage.jsp**

|  |
| --- |
| <%--  Document : HeaderPage  Created on : 24 Apr 2024, 4:29:27 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Header Page</title>  <style>  header{  background-color: #FFD580;  text-align: right;  font-family: "Courier New", Courier, monospace;  }    </style>  </head>  <body>  <header>  <h1>ABC Sdn Bhd</h1>  </header>  </body>  </html> |

**FooterPage.jsp**

|  |
| --- |
| <%--  Document : HeaderPage  Created on : 24 Apr 2024, 4:29:27 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Header Page</title>  <style>  header{  background-color: #FFD580;  text-align: right;  font-family: "Courier New", Courier, monospace;  }    </style>  </head>  <body>  <header>  <h1>ABC Sdn Bhd</h1>  </header>  </body>  </html> |

**Output:**

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**Reflection**

1. What you have learnt from this exercise?

How to make header and footer using JSP.

1. Write a syntax how you want to include *common.html* file that located at

a directory known as *master.*

<%@ include file="master/common.html" %>

**Exercise**

**tempConvert.jsp**

|  |
| --- |
| <%--  Document : tempConvert  Created on : 24 Apr 2024, 4:47:06 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-  8">  <title>Temperature Convert</title>  </head>  <body>  <h2>Temperature Convert</h2>  <form action="<%= request.getContextPath()  %>/TemperatureConvert.jsp" method="post">  Enter temperature in Celsius: <input type="number" step="any"  name="celsius" required><br>  <input type="submit" value="Convert to Fahrenheit">  </form>  <%  if (request.getMethod().equals("POST")) {  double celsius =  Double.parseDouble(request.getParameter("celsius"));  double fahrenheit = (9.0/5.0) \* celsius + 32;  %>    <p><%= String.format("Temperature in Fahrenheit: %.2f", fahrenheit) %></p>  <%  }  %>  </body>  </html> |

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**Rectangle.jsp**

|  |
| --- |
| <%--  Document : Rectangle  Created on : 24 Apr 2024, 4:51:21 pm  Author : Nur Ezreena  --%>  <%@page contentType="text/html" pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  <title>Rectangle</title>  </head>  <body>  <h2>Rectangle</h2>  <form action="<%= request.getContextPath() %>/Rectangle.jsp"  method="post">  Rectangle 1:<br>  Length: <input type="number" step="any" name="length1" required><br>  Width: <input type="number" step="any" name="width1" required><br>  <br>  Rectangle 2:<br>  Length: <input type="number" step="any" name="length2" required><br>  Width: <input type="number" step="any" name="width2" required><br>  <br>  <input type="submit" value="Compare Areas">  </form>    <%-- Processing form submission and displaying result --%>  <% if (request.getMethod().equals("POST")) {  double length1 = Double.parseDouble(request.getParameter("length1"));  double width1 = Double.parseDouble(request.getParameter("width1"));  double length2 = Double.parseDouble(request.getParameter("length2"));  double width2 = Double.parseDouble(request.getParameter("width2"));  double area1 = length1 \* width1;  double area2 = length2 \* width2;    String result;  if (area1 > area2) {  result = "Rectangle 1 has a greater area.";  } else if (area1 < area2) {  result = "Rectangle 2 has a greater area.";  } else {  result = "Both rectangles have the same area.";  }  %>  <p><%= result %></p>  <% } %>  </body>  </html> |

**Output:**

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