Audio Mood Visualizer:

Automatic Speech Emotion Visualization Through Avatars

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*Abstract*—

Emotions constitute a fundamental aspect of human cognition, profoundly influencing interpersonal interactions. However, challenges such as social phobia can impede individuals from effectively expressing their emotions during communication.

Our objective in this paper is to propose an application that makes it easier for people to communicate with each other and show their emotions. We aimed to achieve this by visualizing the emotions of someone talking -using audio signals only- through the generation of an appropriate avatar that reflects the emotion detected from speech. This can be achieved through applying recent advanced techniques in Speech Emotion Recognition.

Our framework can be divided into two main sub modules: Speech Emotion Recognition and Avatar Generation. To reach the best speech emotion recognition model, we applied extensive experiments using different models and datasets till the best combination was achieved. This combination was using the SER with CNN and Multi-head Convolutional Transformer model trained on the RAVDESS datasets which achieved 95% accuracy. This framework aims to facilitate emotional expression for individuals who may struggle with verbal communication, potentially revolutionizing interpersonal interactions and applications in various fields. Finally, our work focuses on enhancing human communication by visualizing emotions through avatars generated from speech.

Keywords—Speech Emotion Recognition, Convolutional Neural Network, Convolutional transformer encoder, Avatar Generation.

# **INTRODUCTION**

Speech is an important carrier of emotions in human communication. Speech Emotion Recognition (SER) has a

wide range of applications [1] where it could be useful. In the medical field, it can help people who have social phobias to communicate easily with others, it can be used in games by delivering a virtual reflection of a player’s emotions while protecting their privacy, in customer service, it can aid the call center workers, E-learning and virtual meetings can benefit from SER as it can help teachers to detect the emotional state of the students throughout the sessions. Using avatars for visualization also protects users’ privacy. The emotions of a person influence various physical aspects including the tone of voice. So, our aim in this project is to develop a system capable of accurately detecting and classifying human emotions from audio signals. This entails tasks such as emotion recognition, classification, feature extraction, model training, and real-time processing. However, several challenges complicate this endeavor. Emotions are inherently subjective and ambiguous, making it difficult to define clear boundaries between different emotional states. Obtaining accurate labels for emotional content in audio datasets is challenging due to the subjective nature of emotions and the lack of consistent ground truth. Moreover, emotions are often expressed through multiple modalities, leading to limited context and incomplete understanding when extracting emotions solely from audio. Addressing these challenges requires interdisciplinary research and careful consideration of privacy concerns, ethical implications, and cultural variability in emotional expression.

# **RELATED WORK**

Speech emotion recognition is an attractive research field and numerous novel techniques have been proposed to learn optimal SER solutions. In this section, the commonly used approaches in the Speech Emotion Recognition and Avatar Generation fields will be reviewed along with their methodologies and results.

The first submodule in our framework is SER, a field focused on identifying and categorizing emotions expressed in spoken language [2]. Using signal processing and machine learning techniques, SER systems analyze audio signals to detect emotional cues. Recent trends in SER involve the adoption of deep learning models like CNNs and Transformers, which have improved accuracy. Additionally, there is a growing interest in applying SER across diverse domains such as human-computer interaction, healthcare, and entertainment. We will proceed to review the most significant recently published papers on the topic.

In [1], Talen Chen *et al.* provide a comprehensive review of machine learning algorithms used in Speech Emotion Recognition (SER) systems, emphasizing SVMs, ANNs (including CNNs and RNNs), and HMMs. They highlight SVMs' effectiveness in handling high-dimensional data and ANNs' capability to extract complex features from raw speech signals. The paper evaluates these algorithms based on metrics like accuracy and F1 score across various emotional states and datasets, addressing challenges such as cross-cultural differences and noise in speech signals. Future research directions include integrating multimodal data and improving real-time processing for more accurate and robust SER systems.

Following the recent success of vision transformers in computer vision tasks, these models have sparked interest in the signal processing community due to their potential application to signals represented as Discrete Fourier Transform. However, Radu Tudor *et al.* [3] argue that directly applying transformers to spectrograms is suboptimal because of the distinct dimensions (frequency and time). They propose the Separable Transformer (SepTr), which employs two transformer blocks sequentially: the first attends to tokens within the same time interval, and the second attends to tokens within the same frequency bin. Experimental results on ESC-50, Speech Commands V2, and CREMA-D datasets demonstrate that SepTr outperforms traditional vision transformers and other state-of-the-art methods. Unlike standard transformers, SepTr scales linearly with input size, reducing memory usage significantly.

In their study, Fakhar Anjam *et al.* [4] tackle the challenge of effectively extracting emotional features from speech utterances in Speech Emotion Recognition (SER). They highlight the underutilization of advanced fusion algorithms in recent studies despite promising results. To enhance emotional feature representation, they propose a method that integrates spatial and temporal features using parallel CNNs and a Transformer encoder. This approach involves stacking two CNNs to capture spatial features alongside a Transformer encoder for temporal representation, aiming to achieve a more comprehensive hierarchical feature representation efficiently. Their method reduces computational costs while expanding filter depth.

Yassin Ben Ayed *et al.* [5] focus on essential aspects of Speech Emotion Recognition (SER), starting with data representation where raw audio signals are transformed into spectrograms or Mel-frequency cepstral coefficients (MFCCs). Spectrograms capture frequency content over time, while MFCCs represent short-term power spectrum, crucial for neural networks in discerning emotional nuances from speech. The paper explores diverse model architectures like CNNs, RNNs (including LSTM), and hybrid CNN-RNN models, each tailored to capture temporal dependencies and hierarchical features, optimizing emotional pattern recognition. Training strategies emphasize the use of annotated datasets and algorithms like stochastic gradient descent to refine model parameters. Evaluation metrics such as accuracy, precision, recall, and F1-score gauge model efficacy in emotion identification, showcasing robustness in practical applications. Challenges in SER, such as variability in emotional expression, environmental noise, and limited labeled data, are addressed with advanced techniques like data augmentation, transfer learning, and specialized network designs. The paper underscores SER's applications in emotion-aware virtual assistants, sentiment analysis in customer service, and emotion monitoring in healthcare, enhancing human-computer interaction and user experience. Ultimately, leveraging deep learning transforms SER by decoding emotional states from speech, advancing societal and commercial applications with more intuitive and responsive technologies.

Another important aspect related to our work is the field of avatar generation. There are different techniques for avatar generation such as: Image-to-Image Translation techniques [6], matching realistic photograph components to cartoon-like avatar components technique [7], and the Text-and-Shape guided 3D Human Avatar Generation via Diffusion Models technique [8]. We focused in our survey on Image-to-Image Translation as it is usually used for changing the expression or parts in the photo because we wanted to create different images with different emotions to visualize the detected emotion in the voice. Most papers on this topic use Generative Adversarial Networks (GANs) in unsupervised Image-to-Image Translation from different domains with unpaired image data as images not related to each other. But most of them create images with low-quality and some of them change unwanted parts of the input image which cause unwanted image as an output [6]. The main goal is to create realistic-looking avatars that resemble a person with different emotions. It works by analyzing various facial features, such as the shape of the face, eyes, nose, and mouth, to know the most important parts to change and then generating avatars with different emotions.

In [6], Tang *et al.* introduced AGGAN, an Attention-Guided Generative Adversarial Network designed to enhance the quality of emotion-specific image generation from human face photos. Unlike traditional GANs, AGGAN integrates an attention mechanism that identifies and manipulates only the most discriminative semantic parts of the image, such as eyes and mouth, while preserving other parts like hair and clothing. This approach mitigates the issue of generating low-quality images by focusing on regions crucial for expression changes. The proposed attention-guided discriminator complements this by emphasizing attended regions during training. AGGAN is trained end-to-end with adversarial loss, cycle-consistency loss, pixel loss, and attention loss, yielding sharper and more accurate emotion-specific images. Experimental results on AR Face, Bu3dfe, and CelebA datasets demonstrate AGGAN's superiority over existing models.

On the other hand, there are tools that generate customized avatars based on choices for the shape of the eye, nose, mouse, brows, hair, and clothes. You can add a beard, or glasses. It is faster than other techniques but provides limited options when compared with deep learning generation-based methods.

# **PROPOSED METHODOLGY**

Our application takes audio as input and generates a video of an avatar visualizing the detected emotions from the audio. Our proposed framework consists of three main subprocesses: preprocessing, speech emotion recognition and avatar generation. This section will provide important details about how we employed each step.

## Preprocessing

The audio is preprocessed before sending it to the speech emotion recognition module .We split audio into small audio segments according to silence. Then remove noise from audio .Then MFCC is applied to each audio segment for feature extraction. MFCCs are first extracted from the raw audio signal, representing the audio's essential characteristics.

## Speech Emotion Recognition

In this paper ,we can detect emotions from MFCC extracted from audio after preprocessing using two CNN architecture and transformer encoder in parallel are shown in below in [**Figure 2**](#Two_parallel_CNN) and[**figure 3**](#Transformer_encoder)**,** respectively.

A diagram of a network diagram

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Figure 1 : Panoramic view of the SER [9] model used.

## CNN

Each CNN model consists of a 3-layer deep 2D convolutional block. Like the classic LeNet architecture. This models’ CNN consists of the following order of layers: convolutional block –> max pooling -> convolutional block- > max pooling ->fully connected.

A diagram of blue cubes

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A diagram of blue cubes

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Figure 2: Two Parallel CNN.

## Transformer encoder

MFCCs, organized as a matrix of time frames and coefficients, may be segmented into fixed-size chunks. Each segment is fed into the transformer encoder, where positional encoding is added to provide temporal context. The transformer encoder, consisting of layers of self-attention and feed-forward neural networks, processes these feature vectors. The self-attention mechanism helps the model capture patterns and dependencies within the audio sequence. The encoder refines the feature vectors into rich, abstract representations, which can be used for various audio processing tasks.

![A diagram of a software algorithm

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generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAUUAAAEbCAYAAABN8JbaAAAACXBIWXMAABJ0AAASdAHeZh94AAAgAElEQVR4AQAihN17AfPz8/////8AAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQEAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAQECAP///wAFBQQAJygmAFdWVQA1NTQABQUFAAAAAAD/AAAAAAACAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/v4A+/v7AAAAAAAAAAAAAAAAAAAihN17Afj4+P8BAQEABAQEAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANze3QBpaGkA2djcAGFiZAAgHyAA//8CAAECAQD/AAAAAAAAAAAA/wAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA//8AAAEAAAD//wABAQEAAAAAAP///wABAQEA//8AAP8A/wACAQEA/wAAAAD/AAAAAAAAAAEAAAD/AAAAAAAAAAEBAP///gABAAEAAAAAAP8A/wACAgIA//7/AAAAAAD/AP8AAgICAAAAAAD//v8AAAEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAQD///4A9PXzAKiopgDe3dsAnZ2bAEpKSAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+APv7+wAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA5ubnANna2wAvMjQAW11eAAICBgACAQQA//8AAP8AAQAAAQAAAAD/AAAA/wAB/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wDKy8kABwcHAC4uLwABAQEAAAD/APn5+gDc3NwAKyorAP8A/gABAAIAAQEBAP///wAAAAEAAQEBAP///wAAAAAAAAEAAAEAAQAAAAAA/wD/AAD/AAABAQEA////AAECAQD+/v8AAP//AAICAgD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAf//AAQDAwD8/PoAFBMVAGRlYgDX2NkASkpKAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/gAAAQACAAEAAQAA/wIAAQIDAP3+AQABAQIA/wABAAAAAAAAAP4AAQAAAAABAAAAAAAAAAD/AAAAAQAAAAAAAAAAAAAA/wAAAAEAAAAAAAAA/wAAAAA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B/wAOEA4AP0A9ABESEgAhIiEA09PUAAABAgBISEkAERAQAAAAAAD+/v4A+fn5AOXl5QCfn58A4eHhAExMTABnZ2cAICAgAAAAAAD///8A/v7+AAICAgAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAEBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AABzuLzrAAAgAElEQVQAAQEBAP/9+wABAAEAAf8CAAAA+wADBAEA/v38AP8ABAC6ubUARkc+ADEzLQACAwQAHiIUAK2trAA7DREA7e7uAO/w9QAFBAIA29zeAPz/9gAXGhYA1dXSADIzMgABAgAA3d/bAAkKBwABAgEA/v4DAPn5+QDY2tsAQkFEAB0cHwDLy84Ak5OTAGRkYQAqKy0A/v78AP4A+gD/AvoAAQP5AAwPBABUVk8Ar6+wALu7xQAqLCoAIyQlANvc4QAoKi4A9vX1AOTl4AAwMS8ACAsDAAUHAgD/Af4AAAP/AAUIAgABA/wAAAL7AAUI/wAAA/kAAQT8APz+9wABA/0A/gABAAEBAQD//wEA/v7/AAECAAABAgEAAAAAAAYHCAAoKC4AJiYuAFNTWAD3+PUA6enoABQTEwANDg4AAQEBAP///wABAQEA////APb29gDIyMgAeXl5AMvLywCcnJwAHx8fAAEBAQABAQEAAAAAAAAAAAD///8AAAABAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAID/wAAA/4A9Pn2APr+/gAEAQUAAQABAPr8/gADAgUA/f3/ADY3OAAoKCgACAUBAAD//gARIiAAXVdYAAcHCgAeGBsAx8DCAAUFBAA2MC8AOjQxACYmKAAXEREAw73CAAYHBABBOz0AExMRAAP8AwAC/wMADQYFAFlSWADPz9AA2NHXABcXGACZlJQA6+vpAPv19wAGBwQABQIEAEhCQgAQEBAABQD/ABAKCwBbVlgALCUpACEbGQAwKioA1tbVAL63uQAFBgUATkhJABgZFgAZExIAGRMWAAX+AwA+ODsAFA0RAAT+/wAjHSAAFxETAAb/BAAVDxMAXVddAAT9BAADAwMA//4AAP///gACBAUA+/sDAPLy9wD9/gMAAgIFAP7+/wABAQIAAQEBAAsLCwAiISAAAAABAAABAQAAAAAAAQEBAAAAAAABAQEACwsLAENDQwCLi4sAZmZmAICAgACampoABgYGAAAAAAAAAAAAAAAAAAAAAAABAQAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJCYmAERFRwC1tbEAeHeKABwcFwABAf4AAAABAAEAAQD//wEAAP8AALq5ygAA//wAAQEAAP7+/wACAQIAAAACAP7+/wAAAAAAAgICANHV3gACAQAA/7TAAAEBAwD//gEA/wD9ANLU4wD/APsA//7/AAICAQD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///8AAwEBAAABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADKBAVrAAAgAElEQVQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAf8AAAH/AAD/AQAA/wEAAAAAAAABAAAAAgAA/v//AP//AAABAAAACQYCAAIC/QAAAP4AAAD9AAAB/gAAAP8AAAH+AAEB/gD/Af8A/QAAANHW2AB3fH8At7u8APv+/gD+AwQA9/v9AJqfoQCXnZ4A9/v5APj8+QD9Af0A/gEAAPn8/QD5/f4Aw8jJANvd3gDb4OEAsba3APX5+QDl6uoA+/7+AP4A/gD/Af4AAAD9APHz8wCkqKsA+wAAAP0AAAD/AAAA/f7+AKGlpgD0+fsA+wEFAOrt8QDo7OwA9/n5AP4CAQD8AAAA8fX1AOXo6QDw8/UA/P8CAP4AAwD6/AAA5ensAO/x9gDCw8gAyMnOAP8AAgAA//8AAQH9AAEB/gAA/vwAAQD6AAEA+QADBPwAAv/4AAQEAAD+/v4AAAD/AP///wABAQEAAAAAAAEBAQAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAH+/QDi5ukAh4yUANvg6QABAQMAAP/9AP7+AQDEx88AlZmeAPf3+QD/AgUAAQEAAP//AAD9AAIA/gEFANHS1gDa3uEA9vr9AN7h5AD9AAQA3uDkAN3f4gD+AAQAAQIDAP/+/gD5+v0At7e9APn7/wD+/wIAAgMGAPr6AQC2tr8A+/v8AAD/AAACAAEAAf8AAAD/AAAB/wAAAP//AAH/AAACAAEAAf4AAAD/AAAAAQMA////AP8DAwD+AAEA5+frAMjIzAD9AAIA/wAAAAAA/wAAAP8AAP8BAAD/AgAA/wIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAP8AAQAA/wMAAQACAAEA/wD/AP4AAAH9AP4BBAADAQMA/gEEAP//AgD+/fwAAf/9AAEA/wABAAAAAAAAAAAB/wAAAAAAAAAAAAMA/gD9//8AAAECACcrLADj6ewA6O7wABUXHgC8w8YAChAYAAwRFgDg4+YA0c/IAE9NTQAICAsAvsPDABESFgD+/gEA8vP2AOTb4QDOztEAKykrANTZ3wAWFxoACQgHAAIDBQD9/PsA/wQHAPH4/gDN0dUABQD8AAQA/gD3+PoA7/P4APP7BQCnsbYACwgGABgUEQDe3cEANzk3AO/v7wDb29sAIyMkANbW2AAuLS4ADQ0OAMPEwwAsKywA9vbhAMjP1gA7PDoA/QEAAAAC/AAB/v4AAQEDAAD+/gABAQEAAAD+AAD//gABAAMA//8AAAAAAQAAAP8AAAD/AAAAAQAAAAAAAAAAAAAAAQAAAAIAAAAAAAAAAgAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAOfu9gDJ2uoA/7fDAGxfTAAPCgcA9/kCALS9ywD5+/AA9fwBAOjo6QAcGA8ABwcEAO/y+ADo7fEA3+ftAAsM+QDl7O4AxcK+AFhXVgAGBQkABAMEAP4AAQD/AP8AAgP9APn4+wDY3uEAPP0DAAIFAAADBAMA+PsDAM/V4ABDRvwA+vr+ANXV2QD19fQADQ4NACYmJQAAAQAA3NvXAO/w8QAIBwgAJiYlABAREQDp6ugA29veAAMECAD29vkA6+nsADM2AwACBfwAAP/9AAEA/wAAAQMAAP8FAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8A////AP///wD//wAAAAAAAAECAQABAQEAAP//AAAAAQAAAAAAAAABAAD//wAA//8AAAP/AAEB/wD//vwAEg8OADExNAC8v8cANjYCAODg5QBRUFMAsrGvAPv6/gD19fwA/v8IAP4BCQDs8foACQ4AAP4AAAASExEAFBocAP8BAAAjJSYAwsfLAPf3+QDMzdAA6evrABkWFQAdISUAAwEBABcWFgAGAf4AAP78APj5+wAFBwkA09PUANLS0wA/QD0A7fLzAPv9AwDY2eMAISEgABob/wADBAoACAkMAOLl5gD09NgAMDIwADQ1NAD+/v0A7O/qAAEA/wABAf8AAgEAAP//AAAC/wAAAAABAAAAAAD/AAAA/wAAAP8AAAD/AQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQD+AQMAAQMFACAdGwAgHhkA0dbaADMwNACjrLE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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAgICAP///wAAAAAAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgD9/f0A/f39AAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAgABAQAA/v7+AAEB/wAFBQYADg4FAA4ODwACAgIA/v7+AAEBAQD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADv7+8ACwsNAAwMDAAxMTEADw8PAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gABAQEAAAAAAP///wACAgIA////AAAAAAD///8AAgICAP39/QACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEA/v7+AA4ODgAMDAwAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgAA9vb2ABISEgAKCgoALCwsACUlJQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAICAgD+/v4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQD+/v4AAgICAP7+/gD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAP8AAQEBAAAAAAD///8AAAAAAAAAAAAAAAAALy8vAObm5gDW1tYA////AP///wD///8A////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAEAAAABAAAAAQAAAAEAAP8AAAD/AAACAQIAAQACAAD/AAAAAAAAAAAAAP///wAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAP///wAEBAQA/v7+AAAAAAAAAAAAAQEBAP7+/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAAAAAAABAQEAAgICAAAAAAAAAAAA/v7+AAEBAQD9/f0AAgICAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP//AAAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8A////AAAAAAAAAAAAAAAAAAEBAQD///8AAQEBAP///wAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gADAwMA/v7+AAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gADAwMAAQEBAP///wD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8CAAD/AgAA/wIAAP8CAAD/AgAA/wIAAP8CAAD/AgAA/wIAAP8CAAD/AgD//wAAAgICAAAAAAABAQEA/v7+AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAEBAQDr6+sA4ODgABYWFgANDQ0A////AP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8A/v7+AAICAgD///8AAQEBAAAAAAAAAMGu1eQAACAASURBVAAA/v7+AP///wBZWVkAODg4AGxsbAC4uLgA+Pj4AP///wAAAAAA////AP///wAAAAAAAAD/AP///gD///4AAAD+AAAA/gAAAP4AAAD+AAAA/gAAAP4AAAD+AAAA/gAAAf8AAAH/AAAB/wAAAf8AAAH/AAAB/wAAAf8AAAH/AAAB/wAAAf8AAAH/AAEBAAABAQEAAAAAAAEBAQABAQEAAQEBAP///wD///8A////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAICAgD+/v4AAgICAP7+/gADAwMAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQABAQEAAQEBAAAAAAAAAAAAAAAAAAEBAQACAgIAAAAAAAICAgAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAwMCAP///wABAQEA/v7+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAQEBAP///wABAQEA////AAEBAQD+/v4AAwMDAAAAAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgICAP///wABAQEAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABlZWUAysrKAIKCgAAXF5UAKCgpAAMDAgAAAAAAAAACAP///wABAQEA////AAEBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgIDAAICBAD//wEAIyMlAI+PjwAeHh4ABAQDAP//AAD+/v4AAgICAAEBAAD9/f4AAgICAAAAAAD+/v4AAAAAAAMDAwD///8A/v7+AAEBAQACAgIA/v7+AAAAAAABAQEA////AAAAAAABAQEAAAAAAP///wACAgIA////AP7+/gACAgIA////AAAAAAABAQEAAAAAAP///wAAAAAAAgICAP7+/gAAAAAAAQEBAAAAAAD+/v4AAQEBAAICAgD+/v4ABAQEAAoKCgAGBgYAAgICAAICAgD///8AAAAAAAAA/wAAAP4AAAAAAPX18wCVlZMAycnHAImJiQArKysAAQEBAAAAAAAAAAAA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAD+/v4AX19fAOvr6wCdnZ0A8fHxAGhoaAAfHx8AAAAAAP//AAAAAAAAAQEBAP///wAAAAAAAwMDAAMDAwAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEA/v7+AAAAAAAGBgYABAQEAAAA/wABAf8A/wD9AAAAAAAAAf8AAAEAAAAA/wABAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP//AAD///8AAgIBAP39/QABAQEA6+vrAKWlpQCXl5cAUVFRAG5ubgABAQEAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEBAQAAAAAAAAAAACcnJwCUlJQAcXFxAF1dXQBxcXEATk5OAA0NDQACAgIAAAAAAP///wACAgIA/v7+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/v4A/v7+AAAAAAAEBAQAERERABoaGgAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAAAAP///wABAQEAAAAAAAAAAAD///8AAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAD///8AAQEBAAAAAAABAQEAAAAAAAAAAAABAQEA////AAAAAAD///8AAAAAAAEBAQAAAAAA////AAEBAQABAQEA/v7+AAAAAAABAQEA///+AP39/QDNzc0AlZWVAMXFxQB6enoAXFxcAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wABAQEA////AAICAgAMDAwAdnZ2ACcnJwCKiooAubm5AFNTUwBAQEEAJycoABEREQABAQEAAQEBAP///wD///8AAAAAAAAAAAAAAAAAAAAAAAAA/wAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAP39/QD+/v4A////AP7+/AD///0AAQEBAAAAAAD+/vwAAAAAAP//AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wDz8/MA3t7eAMbGxgCjo6MA/Pz8AH9/fwBWVlYADQ0NAAAAAAD+/v4AAwMDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEA/f39AAMDAwD///8AAgICAC8vLwCmpqYAnJycAI6OjgCcnJwARkZGAEJCRAAfHx8ADw8PAAgICAD9/f0AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQD8/PwA/f39AAAAAAD+/v4A+/v7AAAAAAAAAAAAAQEBAP///wAAAAAAAQEBAP///wAAAAAAAQEBAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAA////AAAAAAAAAAAAAQEBAP///wAAAAAAAQEBAAAAAAD///8A////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQD8/PwA+fn5AOTk5ADV1dQAtLSzAMzMzAApKSkAra2tADExMQAHBwcA////AAAAAAD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB+Pj4/wEBAQAEBAQAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAD///8A////APHx8QC8vLwAsrKyAM7OzwD4+PgADQ0NAAsLCwD+/v4AAgICAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wACAgIA+/v7ANnZ2QADAwIAJSUmAAICAgACAgIA///+AAAAAAAAAAEAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD//wAA+vr6APHx8QAEBAQAKioqAE5OTgBGRkYAoDDbSwAAIABJREFUGBgYAAEBAQAAAAAA////AAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAA////AAEBAQD///8AAQEBAP///wAAAAAA6+vrALa2tgDFxcUAxcXGAPn5+QAAAAAABgYGAP7+/gABAQEA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADq6uoA9/f3ABgYGAAICAgA////AAAAAAABAQEA////AAAAAAABAQAAAAABAAAAAAD///8AAAAAAAEBAQAAAAAA////AAEBAQAAAAAAAAAAAP///wAAAAAAAQEAAAAAAQD///8AAAAAAAEBAQAAAAAAAAAAAP///wABAQAAAAABAP///wAAAAAAAAAAAAAAAAAAAAAAAQEBAP///wAAAAAAAQEBAP///wABAQEA////AAAA/wAAAAEAAQEBAP///wABAQEA////AAAA/wD8/P0AAgICACMjIgA5OTkATk5OACoqKgAFBQUAAAAAAAICAgAAAAAAAAAAAP///wABAQEAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/v4A+/v7AAAAAAAAAAAAAAAAAAH4+Pj/AQEBAAQEBAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AP///wABAQEAAAAAAP7+/gAAAAAA9fX1AOrq6gDx8fEA/Pz8AAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAICAgDv7+8AfHx8AAgICAB9fXwAEBAQAP///wACAgIA/v7/AAEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQACAgIADQ0NABUVFQANDQ0AAwMDAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAEBAQD///8AAQEBAP39/QD39/cA8vLyAPPz8wD6+voAAAAAAAEBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/Pz8AIaGhgDR0dEAiIiIACUlJQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAQEBAAkJCQAPDw8ADw8PAAMDAwAAAAAAAQEBAP///wAAAAAAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gD7+/sAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAAAAAAAMDAwADQ0NAAAAAAD///8AAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAO3t7QAODg4ACQkJADAwMQAVFRUAAAAAAP7+/gACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8A////AAICAgD///8A////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wABAQEAAAAAAAAAAAD///8AAgICAAwMDAAMDAwA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD5+fkAEBAQAAoKCgAlJSUALS0tAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wABAQEA////AAEBAQD///8A////AAICAgAAAAAAAQEBAP///wD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAEBAQD///8AAQEBAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEA////AAAAAAABAQEAAAAAAP///wAAAAAAAQEBAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAQEBAP///wAAAAAAAAAAAAAAAAABAQEA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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A8/PzAPDw8AD///8ADQ0NAA8PDwAAAAAA9PT0AAEBAQDz8/MA+vr6AA8PDwAQEBAA////AO/v7wD19fUA////ABAQEAANDQ0A1tbWAOPj4wAuLi4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAP///wABAQEA////APj4+ADf398Ax8fHANXV1QDu7u4ABQUFAAUFBQD///8A+vr6AP///wAREREALy8vADk5OQAeHh4ABQUFAAMDAwD+/v4AAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wABAQEAAAAAAP///wD+/v4A+fn5APv7+wD+/v4AAAAAAAEBAQAGBgYABgYGAAMDAwACAgIA//85jb2mAAAgAElEQVT/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAEBAQABAQEA9/f3AOTk5AD+/v4AAAAAAAEBAQAJCQkAExMTAAoKCgABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wDu7u4AAgICABAQEAD5+fkACAgIAP///wDn5+cAFhYWAAUFBQD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADx8fEAAgICAA4ODgABAQEA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAihN17BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////APPz8wAICAgA////APr6+gAEBAQA/v7+AMnJyQDCwsIAOzs7AAUFBQCwsLAAISEhADQ0NACbm5sAR0dHAAEBAQC0tLQAQEBAAObm5gDg4OAADQ0NAOrq6gDh4eEAGRkZAMPDwwAeHh4A8/PzAK6urgA+Pj4ADQ0NALa2tgAQEBAAT09PAHt7ewAnJycAODg4APT09ACxsbEAcnJyAObm5gDExMQAPT09AP39/QCcnJwAVFRUAP///wABAQEA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAQEBAP///wABAQEA8vLyAMbGxgCkpKQADQ0NAENDQwBra2sAFxcXAAgICAACAgIAAQEBAP39/QD39/cA5ubmAMzMzACKiooA////AFxcXAA4ODgACQkJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAP///wD+/v4AAAAAAP///wD///8AAQEBAAAAAAD+/v4AAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8A////AAAAAAAAAAAA////AAEBAQABAQEA+vr6AN/f3wDOzs4Azc3NAPb29gD9/f0AAgICAP///wD+/v4AAQEBAAcHBwAuLi4AMzMzACgoKAAICAgAAQEBAP///wAAAAAA////AAAAAAABAQEA////AAICAgD///8AAQEBANra2gCNjY0AXV1dAAUFBQD5+fkA6OjoAMjIyAB8fHwAHBwcAP7+/gD8/PwA////AAUFBQABAQEAAQEBAP///wD7+/sA////AAUFBQABAQEAzMzMABEREQAmJiYAoKCgAFpaWgAREREAw8PDAENDQwAUFBQAAAAAAPr6+gD+/v4ABwcHAAAAAAABAQEA////AP///wD7+/sAAQEBAAUFBQABAQEA/v7+AAAAAAD7+/sAAAAAAAUFBQAAAAAAtLS0ABoaGgBCQkIAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD7+/sAwMDAAAsLCwD///8ABwcHAEdHRwAqKioAenp6AGxsbAAoKCgAAAAAACwsLABra2sAHx8fAAQEBADBwcEAExMTACUlJQAcHBwA4eHhAPv7+wAdHR0AICAgAC8vLwAbGxsA9/f3APf39wCrq6sAV1dXACsrKwABAQEALS0tAHp6egAoKCgAAQEBAElJSQAiIiIA/v7+AMDAwADY2NgALCwsACMjIwDV1dUA/Pz8ANPT0wAxMTEABwcHAP///wABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AOnp6QB5eXkACQkJAH5+fgAgICAABgYGAP///wAAAAAA////AAAAAAACAgIAAAAAAA0NDQAnJycAJiYmAFVVVQDR0dEAl5eXAK2trQCDg4MAERERAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAP7+/gABAQEAAQEBAAQEBAAAAAAAAAAAAAEBAQD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAA////AP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEBAQAAAAAA+/v7AM3NzQCVlZUACwsLAD8/PwBnZ2cAFRUVAAgICAADAwMA////AP7+/gD4+PgA8/PzAM/PzwChoaEA5+fnAFZWVgBJSUkACgoKAP7+/gACAgIA/f39AAICAgAAAAAAAAAAAAAAAAD+/v4AAAAAAAkJCQBCQkIAAwMDAAAAAAD29vYAw8PDAN/f3wDy8vIAvLy8ABEREQD6+voA9/f3AFlZWQACAgIArKysAAsLCwD7+/sA6+vrAFRUVADx8fEAAwMDAMPDwwDGxsYAExMTAD8/PwDr6+sA/f39AO/v7wClpaUAEBAQAP///wDw8PAARUVFAAwMDACYmJgAKioqAAQEBADr6+sACQkJAGBgYADMzMwAy8vLABISEgD5+fkABgYGAE5OTgD///8A////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA8vLyAGtrawC5ubkA+Pj4ACUlJQClpaUAKCgoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/v4AAAAAAP///wABAQEAAQEBAP39/QDf398AvLy8AMnJyQD8/PwAHR0dABoaGgAUFBQAAQEBAPPz8wDj4+MA5eXlAPn5+QAwMDAAREREACoqKgAFBQUA////AP7+/gABAQEAAAAAAAICAgD///8AAAAAAP///wABAQEA1dXVAIeHhwArKysA////AAMDAwD+/v4AEBAQACwsLADT09MAampqAAEBAQDf398AmZmZAHNzcwDLy8sA1NTUABsbGwDx8fEA+/v7AFZWVgDW1tYAyMjIACEhIQD39/cA6enpAE9PTwAiIiIArKysAOzs7AAaGhoA9PT0AOLi4gAwMDAABQUFANnZ2QBNTU0ApaWlAHBwcAAREREA/Pz8AIuLiwBbW1sA8fHxAMjIyAAEBAQACAgIANvb2wD19fUAhYWFAAQEBAAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/v4A+/v7AAAAAAAAAAAAAAAAAAH4+Pj/AQEBAAQEBAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAD///8AAAAAAPb29gDq6uoAAAAAABUVFQAMDAwAAAAAAP///wABAQEAAQEBAAAAAAAAAAAAAAAAAP///wD///8A////AAICAgAAAAAA/v7+AAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAADr6+sAV1dXAA4ODgCdnZ0AEhISAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAEBAQD///8AAQEBAAAAAAAAAAAAAAAAAP///wAAAAAAAQEBAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8A////AAAAAAAAAAAA/v7+AAMDAwABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD29vYA8fHxAHx8fADLy8sAnJycACAgIAAVFRUAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAD///8A/v7+APLy8gDl5eUA6enpAPb29gAAAAAABgYGABgYGAAYGBgAExMTAAMDAwABAQEA////AAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAAAAAAAAAAD///8A/Pz8AP///wAAAAAAAAAAAAAAAAACAgIAAQEBAAEBAQACAgIAAAAAAP///wD+/v4AAgICAAEBAQD7+/sA9vb2AAMDAwALCwsAAAAAAAEBAQD8/PwA9PT0AAICAgAMDAwAAgICAAAAAAD///8A+fn5APj4+AAJCQkABAQEAAEBAQAAAAAA/v7+AAMDAwD///8AAQEBAAICAgD+/v4A/f39AAICAgCkpKQAISEhACQkJAD6+voApKSkADY2NgBDQ0MAAQEBAP///wABAQEAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gD7+/sAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAACgoKACEhIQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAICAgACAgIA////AP///wACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wABAQEA////AAAAAAD///8AAQEBAP///wABAQEA////AAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gABAQEA////AAAAAAACAgIAAAAAAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgICAADAwMAAgICAP///wAICAgAFBQUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD///8AAQEBAAEBAQADAwMAEBAQABAQEAAsLCwAAAAAAP///wABAQEAAAAAAP///wD///8A////AAEBAQAAAAAA////AAEBAQAAAAAAAAAAAAAAAAAAAAAA////AAAAAAABAQEA////AAEBAQAFBQUAAQEBAAAAAAD///8AAAAAAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAAAAAMDAwAAAAAAAAAAAAUFBQAODg4AAQEBAAAAAAAAAAAAAAAAAAMDAwAQEBAA////AAEBAQAAAAAAAAAAAAEBAQAICAgACAgIAAAAAAAAAAAAAAAAAAAAAAACAgIAAAAAAAICAgD///8A////AAEBAQAEBAQA/v7+AE1NTQDU1NQAycnJAAQEBABQUFAAKioqAAAAAAAAAAAAAAAAAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB+Pj4/wEBAQAEBAQAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gABAQEA////AAAAAAABAQEA////AAEBAQAAAAAA////AP///wACAgIAAAAAAAEBAQAAAAAAAAAAAAAAAAD///8A/f39AP///wADAwMA7e3tAK+vrwDS0dEA+vr6AAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAA////AAABAQABAQEA+Pj4AMPCwgABAgIAPTw8AAYHBwACAgIA/fz8AAECAgABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAQECAAECAQD+/f0AAgIDAAAAAAD///8AAgICAP/+/gD/AAAAAAAAAAEBAQD///8AAAAAAAAAAAAAAAAA////AAACAgD+AP8A//7+AAMDAwAAAAAAwczKAAEAAAABAAAAAf8AAAAAAAAAAQAAAAEAAPz+/QDz9fYAub+/ABMYFgA3ODYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH4+Pj/AQEBAAQEBAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/wAAAAAAAAABAAAAAAAA/wAAAAD//wAAAAAAAP8AAP///wDx8PAAuLi4ANzd3AD3+fcAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAQAAAP8AAP8A/wAAAAAAAQABAAEBAQD///8AAQEBAAAAAAD///8A/wD/AAEAAQAAAQAAAP8AAAAAAAAAAAAAAAAAAAAAAAABAQEA/wD/AP//AAABAAAAAQEBAAAAAAD///8A5+jnAAIBAgAYGBgA/v7+AAICAgD9/v0ABAMEAP///wAAAAAA////AAAAAAABAQEA/wD/AP8AAQD/AP8AAP8AAAEAAAAB/wAAAQEAAAABAQD///8AAAAAAAABAQD///8AAQIBAP/+/wAAAAAAAAAAAAEAAAAA/wAAAgQCAP7+/wD///8ABwgHACwrKwBAP0EAEhISAAEBAQAAAAAA////AAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAD+//8A9vb3AMG/vwDNy8sA7+3sAP39/AABAQAA/wEAAAAAAgD/AAAA/wABAP4A/wAAAQAAAAAAAAAAAAABAQEA/v7/AAEAAAAAAQAAAAABAAAA/wAA/wAAAAEAAP///wACAQIA/v//AAEAAAAAAQAAAAABAAAA/wABAQEA//7/AP8AAAACAQEAAAD/APn4+gDh4eAAJSYmAAEAAAD/AAAAAwICAP7+/gABAQEA/v/+AAAAAQD/AAAAAgIBAP7+/wABAQAAAP8AAP8AAAABAQAAAAAAAAAAAAAA/wAA//8AAAQDAQD+/v8AAgIBAP7+/wAAAQEAAP//AAAAAAD/AQAAAAAAAAEAAAAC//8AAv//AAgJCQAjJSYARUZHAB4fHwADAwMAAAAAAAD/AAABAAAAAAD/AAAAAAAAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gD7+/sAAAAAAAAAAAAAAAAAAfj4+P8BAQEABAQEAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAA/v7+AAEBAQABAQEA//8AAAEBAQAAAAAAAAAAAAAAAAAAAP8AAP8AAAAAAAAAAAAAAAAAAAAAAAAAAQAA/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAABAPPz8gB1dXUABgYGAIaGhgAMDA0AAAD/AAABAQAA//8AAQEBAAAAAAAAAAAAAAAAAAAAAAD/AAAA/wEAAAAAAAABAAAAAAAAAAD/AAABAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAQAAAP8AAAAAAAAAAAD/AAAAAQD///8AAQEBAAEBAQAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7//gAAAAEAAP//AAAAAAAAAAAAAAAAAAABAAAAAQAAAAABAAAAAAD/AAAAAAAAAAD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD//wD+/v4AoaGhAKSkpACWlpYAJycnAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAP8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAQAAAAAAAAAAAAAA/wAAAAAAAAAAAAAAAAAAAAAAAAD/AAAAAQAAAAD//wAAAAAAAQEAAAAAAQD+AP8AAAAAAAIBAgAAAAAAAf8AAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+APv7+wAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIAAAAAAAAAAAABAAAAAf//AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/AAABAQEAAAAAAAAAAAAAAAAAAAAAAAD//wAAAAAAAAAAAAAAAAAAAAAAAAEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP/+/gD+/v0ArausAK6srQACAgEANTIzAF1fXwABAAAAAP//AAAAAAABAAAAAAEBAAAAAAAAAAAAAAAAAAH//wD//wAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAD/AAD/AAABAAEAAAAAAAEBAQD/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP/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ACgoKAP///wADAwMAAAAAAP39/QAAAAAAAwMDAP39/QD29vYA/v7+AAkJCQAGBgYAAgICAP39/QACAgIAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD+/v4A+/v7AAAAAAAAAAAAAAAAAAH4+Pj/AQEBAAQEBAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AP///wACAgIA////AAAAAAAAAAAAAAAAAAAAAAAAAAAA9PT0AO/v7wAcHBwAAQEBAAAAAAABAQEA////AAEBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAEBAQD///8AAwMDAAAAAAD9/f0AAgICAP///wABAQEAAQEBAAEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AP7+/gABAQEAAAAAAAEBAQD+/v4AAQEBAP///wABAQEAAAAAAAAAAAD///8AAQEBAAAAAAD///8AAAAAAAEBAQAAAAAA9fX1APDw8AAaGhoAAAAAAAICAgAAAAAAAAAAAP///wABAQEAAAAAAAAAAAD///8A////AAEBAQD///8AAQEBAAAAAAAAAAAA////AAEBAQABAQEA/Pz8AAMDAwD///8AAgICAP///wABAQEAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gD7+/sAAAAAAAAAAAAAAAAAAfj4+P8BAQEABAQEAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAEBAQAAAAAAAAAAAAEBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEA////AAAAAAD///8AAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQD///8A////AAEBAQAAAAAAAAAAAP///wABAQEAAAAAAP///wACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP///wAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAAAAAAAQEBAP7+/gACAgIA////AAEBAQD+/v4AAQEBAP///wACAgIA////AAAAAAAAAAAAAAAAAAEBAQAAAAAA////AAAAAAAAAAAAAQEBAP7+/gACAgIAAAAAAP///wAAAAAAAAAAAAEBAQAAAAAA////AAICAgD8/PwAAgICAAEBAQD///8AAQEBAP///wABAQEAAAAAAP7+/gABAQEAAQEBAP///wAAAAAAAAAAAAEBAQD///8AAAAAAAEBAQAAAAAA////AAEBAQAAAAAAAQEBAP///wAAAAAAAAAAAP///wABAQEA////AP///wACAgIAAAAAAAAAAAD///8AAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+APv7+wAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIAAQEBAAEBAQABAQEAAAAAAAEBAQABAQEAAQEBAAEBAQABAQEAAQEBAAAAAAABAQEAAQEBAAICAgABAQEAAQEBAAEBAQABAQEAAQEBAAEBAQABAQEAAAAAAAEBAQACAgIAAQEBAAEBAQABAQEAAgICAAEBAQABAQEAAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPr6+gC8vLwA19fXAAAAAAAAAAAAAAAAAP39/QD///8AzMzMALi4uAD///8AAQEBAP7+/gAAAAAA9/f3AKysrAD09PQA7e3tAKCgoADDw8MA5OTkAL6+vgD7+/sAAgICAP///wD///8AAQEBAAAAAAD///8AAAAAAP7+/gAAAAAA/f39AAICAgDh4eEAuLi4APz8/AAAAAAAAQEBAP///wAAAAAAAAAAAP///wDh4eEAsLCwAPf39wAAAAAA////AP7+/gD///8A////AP///wDb29sAw8PDAP39/QD9/f0AAAAAAAAAAAD8/PwA09PTAODg4ADv7+8AuLi4APX19QD///8AAAAAAAEBAQABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEA1tbWANnZ2QA6OjoA7+/vAOTk5ADx8fEAERERACQkJADi4uIA0tLSACUlJQDo6OgADw8PACEhIQAICAgAKSkpAP7+/gC7u7sA3d3dAD09PQDPz88AqampABwcHAAmJiYA9vb2AN/f3wDw8PAAExMTABwcHAALCwsA+vr6AOTk5ADp6ekADAwMAPDw8ADS0tIAQEBAAAUFBQD9/f0A/v7+AOvr6wAHBwcA8PDwAAoKCgAjIyMABQUFAPT09ADj4+MA7u7uABcXFwAMDAwACwsLAOjo6ADW1tYAFhYWAOnp6QAPDw8AJCQkAPT09ACrq6sAJCQkAE1NTQD7+/sArq6uAFtbWwAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gCvr68AJiYmAP7+/gCBgYEA6urqAB4eHgDR0dEAu7u7AAAAAADc3NwA8fHxACEhIQDLy8sAmpqaAPX19QClpaUA8/PzAPz8/AABAQEA/v7+APz8/AD9/f0A/v7+AOjo6ACKiooA6OjoAB0dHQDi4uIAkpKSAOPj4wCSkpIAx8fHAB8fHwADAwMAtLS0APb29gD///8A////AAICAgDp6ekAbm5uAJ2dnQDU1NQA2dnZAK2trQDd3d0Ajo6OAOfn5wAgICAA6enpAHR0dADCwsIA/f39AM7OzgD09PQAISEhAM/PzwCIiIgA9fX1AP39/QD9/f0A/v7+AD4+PgDNzc0A6urqAAEBAQD///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 3 : Transformer-Encoder

## Avatar Generation

We created avatars reflecting emotions detected by the SER module, using attributes like raised eyebrows, eyes, and mouths. The combinations were processed with the python-avatar library. We focused on the **mouth, eyes, and eyebrows** to express emotions.

The configurations applied to simulate the eight different emotions supported in our application were: (calm, happy, disgust, sad, fearful, surprise, angry, natural).

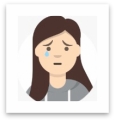
Each avatar had two versions one with a closed mouth and one with an open mouth to simulate speaking. Emotions detected from the audio are compiled into an array and the appropriate avatars are generated and displayed one after the other in a video simulating a speaking person. Figures 4-10 provide samples of the generated avatars for each emotion.

A cartoon of a person with long hair

Description automatically generatedA cartoon of a person laughing

Description automatically generated

Figure 4:Calm. Figure 5: Disgust. Figure 6:Happy.

A cartoon of a person with her mouth open

Description automatically generatedA cartoon of a person with long hair

Description automatically generated

Figure 7: Sad. Figure 8:Fearful. Figure 9:Surprise.



Figure 10:Angry.

# **DATASETS**

This paper incorporates three datasets that are used to train and evaluate different models in our framework with the purpose of detecting emotions from speech. Each dataset is discussed below, the datasets are: RAVDESS [10], SAVEE [11] and TESS [12]

## RAVDESS

The dataset "RAVDESS" [10] contains 1440 files of emotional speech audio (60 trials per actor x 24 actors). It contains twenty-four professional actors (12 female, 12 male).Speech emotions include calm, happy, sad, angry, fearful, surprise, and disgust expressions. Each expression is produced at two levels of emotional intensity (normal, strong), with an additional neutral expression. The filename consists of a 7-part numerical identifier (e.g., 03-01-06-01-02-01-12.wav). These identifiers define the stimulus characteristics.

File name identifier.

• Modality (01 = full-AV, 02 = video-only, 03 = audio-only).

• Vocal channel (01 = speech, 02 = song).

• Emotion (01 = neutral, 02 = calm, 03 = happy, 04 = sad, 05 = angry, 06 = fearful, 07 = disgust, 08 = surprised)

• Emotional intensity (01 = normal, 02 = strong).

• Statement (01 = "Kids are talking by the door", 02 = "Dogs are sitting by the door").

• Repetition (01 = 1st repetition, 02 = 2nd repetition).

• Actor (01 to 24. Odd numbered actors are male, even numbered actors are female).

CNN and Multi-Head Convolutional Transformer [4] model is trained on this dataset to detect emotion from speech and as a result the dataset has been separated into 1152 training, 144 validation and 144 testing.

## SAVEE

The dataset "SAVEE" [11] contains 480 files of emotional speech audio including 384 training, 48 validation and 48 testing. It is male only and very high-quality audio. It was recorded by four native English male speakers. Emotion has been described psychologically in discrete categories:(anger, disgust, fear, happiness, sadness, and surprise). A neutral category is also added to provide recordings of seven emotion categories. The filename consists of three identifiers (e.g., DC\_d04.wav).

Filename identifier.

• English male speakers (DC, JE, JK, KL).

• Emotion (the first character from seven emotions).

• Number of sentence(The text material consisted of 15 TIMIT sentences per emotion).

## TESS

The dataset "TESS" [12] contains 2800 files of emotional speech audio including 2240 training, 280 validation and 280 testing. It is female only and is of very high- quality audio. There are a set of two hundred target words that were spoken in the carrier phrase. And recordings were made of the set portraying each of seven emotions (anger, disgust, fear, happiness, pleasant surprise, sadness, and neutral). The

Filename consists of 3 identifiers (e.g.,YAF\_back\_happy.wav).

Filename identifier.

• Name of character.

• Main word

• Emotion.

# **RESULTS & DESCUSSION**

This section discusses the experiments performed in the project and the results obtained. These experiments were mostly performed in the preprocessing and SER module.

**Speech emotion recognition experiments:-**

Two models were applied to detect emotions based on the tone of the speaker. Each model is explained below along with the experiments and results obtained for each model. These two models are LSTM [13] and, CNN and Multi-Head Convolutional Transformer [4].

## LSTM model [13]

This model contains multi layers from LSTM (Long Short-Term Memory) neural network architecture to recognize emotions in audio data. The model is based on an original paper [13] and employs a combination of three datasets:

* RAVDESS [10]
* TESS [11]
* SAVEE [12]

**Data Preprocessing and Augmentation**

Before training, the data undergoes extensive preprocessing, including:

* Loading and Preprocessing: The three datasets are combined, and audio files are processed for consistency.
* Visualization: Wave plots and spectrograms are generated to visualize different emotions.

**Data Augmentation**: Techniques such as noise addition, time stretching, and pitch shifting are applied to increase dataset diversity.

**Model Performance**

The model achieved an accuracy of 72% in the original paper [13]. In our experiments, we achieved an accuracy of 71%. [**Figure 11**](#Loss_curve_for_LSTM_Model) shows the training and validation loss curves. This visualization was utilized to make sure that the model was not overfitting and for employing early stopping. [**Figure 12**](#Confusion_Matrix_for_LSTM_Model) shows the confusion matrix obtained by this model. We observed that the neutral and unpleasant emotions were the best emotions the model could predict.

**A graph showing the growth of a loss

Description automatically generated**

Figure 11: Loss curve for LSTM model [13]

A blue squares with white text

Description automatically generated

Figure 12: Confusion matrix for LSTM [13]

In addition, several trials have been applied to reach the best version of the model. These trials were related to Preprocessing, architecture, and dataset. Each experiment is explained next.

**Preprocessing:**

The model is based on the original paper [13] , as it dropped categories “fear” and “disgust” and merged “angry and “sad” emotions into the same category, “unpleasant” due to their similar attributes of valence and arousal. Consequently, it focuses on classifying four emotions{neutral, happy, surprise, unpleasant}. On the other hand, in this experiment, we used eight emotions { neutral, happy, sad, angry, disgust, surprise, calm, fearful}.This experiment model achieved an accuracy of 62%.

**Architecture:**

First, we added a convolution layer followed by Batch Normalization layer. Convolutional layers are powerful for extracting spatial features from data, particularly useful for capturing local dependencies and patterns. By adding a convolutional layer, we aimed to enhance the model's ability to process and understand the input data at a finer granularity. Batch normalization was added after the convolutional layer to standardize the inputs to the next layer, speeding up training and improving model stability. This addition helped in capturing more intricate patterns in the data, leading to improved feature representation.

The batch normalization layer contributed to faster convergence and reduced overfitting, resulting in a more robust model. Secondly, we increased the number of LSTM layers from 2 to 3. LSTM layers are effective at capturing temporal dependencies in sequential data. By increasing the number of LSTM layers , we aimed to allow the model to learn more complex and hierarchical temporal features . This addition helped in capturing more intricate patterns in the data, leading to improved feature representation. The batch normalization layer contributed to faster convergence and reduced overfitting, resulting in a more robust model ,the accuracy of which was 89%. [Table 1](#Architecture_changes_LSTM) shows a summarized overview of the trials applied on the LSTM model and the results obtained.

Table 1: Architecture changes in LSTM model [13]

|  |  |
| --- | --- |
| Changes | Accuracy |
| Added a convolutional layer.  Followed by Batch Normalization layer. | 76% |
| Increased number of LSTM layers from 2 to 3 . | 89% |

## CNN and Multi-Head Convolutional Transformer [4]

This model is the main model used in this project with RAVDESS [10] dataset because the transformer model proved to be better than the LSTM model as it achieved an accuracy of 95%. [**Figure 13**](#Loss_Curve_for_CNN_and_Multi_Head) shows the training and validation loss. We used this visualization to make sure that the model was not overfitting and for early stopping,[**Figure 14**](#confusion_matrix_for_CNN_and_Multi_Head) shows the confusion matrix obtained by this model and it shows that the model couldn’t differentiate between the calm and the natural emotions, but the angry and sad emotions are the best emotions the model could predict.

A graph of loss curve

Description automatically generated

Figure 13: Loss Curve for CNN and Multi-Head Convolutional Transformer [4].

A chart with numbers and symbols

Description automatically generated with medium confidence

Figure 14: Confusion matrix for CNN and Multi-Head Convolutional Transformer model [4] on RAVDESS [10] dataset.

In addition, several trials have been applied to reach the best version of this model as well. These trials were related to Preprocessing, architecture, and dataset. Each experiment is explained below.

**Preprocessing:**

In feature extraction, MFCCs and Mel-spectrogram have been experimented with and the results are reported in [Table 2](#Preprocessing_changes_CNN). Mel-Spectrogram is computed by applying a Fourier transform to analyze the frequency content of a signal and to convert it to the Mel-scale, while MFCCs are calculated with a discrete cosine transform (DCT) into a Mel frequency spectrogram and it is a bit more decorrelated, which can be beneficial with linear models like Gaussian Mixture Models. Shortly, MFCC is more relevant than Mel-spectrogram as evident below.

Table 2 :Preprocessing changes in CNN and Multi-Head Convolutional Transformer model [4].

|  |  |
| --- | --- |
| MFCC | Mel-spectrogram |
| Accuracy(95%) | Accuracy(75%) |

**Architecture:**

The main architecture contains two parallel CNNs to detect spatial features and a multi-head attention Transformer encoder to detect temporal features. The changes that were implemented in architecture are shown in [table 3](#Architecture_changes_Cnn). As the fundamental architecture achieved the highest accuracy reaching 95%. Thus, these changes are not considered when dealing with the main model.

Table 3 :Architecture changes in CNN and Multi-Head Convolutional Transformer model [4].

|  |  |
| --- | --- |
| Changes | Accuracy |
| In transformer encoder block:  the number of layers has been changed from 4 to 6. | 76% |
| In CNN:  Changed Max\_pooling to avarege\_pooling. | 74% |
| Used transformer encoder only | 78% |
| Used normalization layer instead of batch normalization. | 82% |

**Datasets:**

The main dataset used in this model is RAVDESS [10] and other datasets have been experimented with. These datasets are SAVEE [11] and combination from RAVDESS [10] and SAVEE [11]. The results of these experiments are reported below in [table 4](#Datasets_trials_CNN_Multi_Head).

Table 4 : Datasets trials in CNN and Multi-Head Convolutional Transformer model [4].

|  |  |  |  |
| --- | --- | --- | --- |
| Dataset | RAVDESS [10] | SAVEE [11] | RAVDESS [10]+ SAVEE [11] |
| Accuracy | 95% | 62.5% | 72.5% |

# **CONCLUSION**

In this project, our aim was to visualize emotions detected from speech using avatars. This is achieved by detecting emotions from speech using SER techniques and Avatar generation techniques to visualize the detected emotions.

For speech emotion recognition, we applied two models: CNN and Multi-Head Convolutional Transformermodel and the LSTM model. We experimented with different configuration for both models and using many datasets such as RAVDESS [10], SAVEE [11], TESS [12] and even a combination between RAVDESS and TESS. Eventually, the CNN and Multi-Head Convolutional Transformer [4] model trained on the RAVDESS [10] dataset was used as our main SER trained model as it achieved the best accuracy compared to the other combinations of models with different datasets. We observed that the model best detects the distinct emotions of “angry” and “sad” and could not differentiate between “calm” and “neutral” emotions as they are close to each other in the voice tone. For visualizing emotions through avatars, we made suitable combinations of the avatar attributes (mouth, eyebrows, etc.) so the generated avatars reflected the detected emotions, then we created two copies of each avatar (one with opened mouth and one with closed one) so we can imitate the visualization of speaking. Finally, a video of the set of the generated avatars was created.

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