311一种基于图片颜色特征检索相似图的方案 1

# 一、缩略语和关键术语定义

**RGB**：RGB色彩模式是工业界的一种颜色标准，是通过对红（R）、绿（G）、蓝（B）三个颜色通道的变化以及它们相互之间的叠加来得到各式各样的颜色的，RGB即是代表红、绿、蓝三个通道的颜色，这个标准几乎包括了人类视力所能感知的所有颜色，是运用最广的颜色系统之一。  
**Java Swing**：Swing是一个用于开发Java应用程序用户界面的开发工具包。

# 二、背景技术

## 1、相关技术背景

相似图片搜索技术是一种利用计算机视觉和机器学习技术，通过分析图片的视觉特征和内容，来寻找与指定图片相似的其他图片的技术。这种技术的背景包括图像特征提取、相似度度量、索引方法和大规模数据处理等方面的研究。常见的相似图片搜索技术包括基于特征描述子的方法（如 SIFT、SURF、ORB 等）、基于深度学习的方法（如 CNN 特征提取）以及基于哈希索引的方法等。这些技术的发展使得相似图片搜索在诸如电子商务、图像管理、安全监控等领域得到了广泛的应用。

## 2、与本发明相关的现有技术

相似图片搜索技术有多种方案，包括基于传统特征描述的方法、基于深度学习的方法以及基于哈希索引的方法等。

1. 基于传统特征描述子的方法：
   * 方案：使用传统的特征描述子如SIFT（尺度不变特征变换）、SURF（加速稳健特征）、ORB（Oriented FAST and Rotated BRIEF）等进行特征提取，并利用特征间的相似度度量方法（如欧氏距离、汉明距离等）进行相似图片搜索。
   * 缺点：对于大规模数据的搜索速度较慢，同时不太适用于处理复杂的场景和多样化的图像。
2. 基于深度学习的方法：
   * 方案：利用深度学习模型（如卷积神经网络）对图像进行特征提取，并通过计算特征向量之间的相似度进行相似图片搜索。
   * 缺点：对于小样本数据需求较大，需要大量训练数据，同时需要较强的计算资源。
3. 基于哈希索引的方法：  
   - 方案：利用哈希函数将图像特征映射到低维度的二进制编码，并建立索引结构进行相似图片搜索。  
   - 缺点：哈希方法可能会损失一定的特征信息，降低搜索的准确性，尤其在处理复杂图像时表现不佳。  
   综合来看，不同的相似图片搜索技术方案各有优缺点。基于传统特征描述子的方法对光照变化、旋转、尺度变化等具有一定的鲁棒性，但在大规模数据处理和复杂场景下表现较差；基于深度学习的方法能够学习复杂特征，适用于处理复杂场景下的相似图片搜索，但需要大量训练数据和较强的计算资源；基于哈希索引的方法适用于大规模数据的高效相似图片搜索，但可能会损失一定的特征信息。

# 三、本发明技术方案的技术概述

## 1、本发明要解决的技术问题：

1.研究高维颜色空间下的相似图片搜索算法，图片特征提取、相似度计算、数据存储与索引方案设计。  
2.开发实际可用的检索工具，代码实现图片特征提取、相似度计算、数据存储与索引功能。该工具的实现需要考虑效率、准确性和用户友好性，并且需要进行充分的性能优化以处理大规模的图片数据。同时，需要确保用户界面友好，并提供直观的搜索结果展示。  
本系统旨在通过分析图片的颜色特征来检索相似图像，采用一种新颖的颜色直方图和局部颜色分布相结合的方法，以提高检索的准确性和效率。

## 2、技术原理简要说明：

**算法原理**：  
1、颜色空间转换与局部特征提取：  
将输入图片从 RGB 颜色空间转换到 CIELab 颜色空间，以更好地反映人眼对颜色的感知。  
利用局部颜色分布的方法，提取图片中的颜色特征。采用局部敏感映射（LDA）来识别和提取图片中的颜色区域。

2、颜色直方图构建：  
对每个提取的颜色区域，构建颜色直方图，统计各个颜色通道（L、a、b）的分布情况。

3、特征向量生成：  
将每个颜色区域的颜色直方图转换为特征向量，这些特征向量将用于后续的相似度计算。

4、相似度计算：  
采用改进的相似度计算方法，结合颜色直方图的交叉直方图（color co-occurrence matrix）和结构相似性指数（SSIM）来衡量两张图片之间的相似度。  
通过计算交叉直方图的统计参数（如对比度、同质性等）和 SSIM 值，得到一个综合的相似度评分。

5、数据存储与索引：  
将生成的特征向量和相似度评分存储在数据库中，建立高效的索引结构，以便快速检索。

6、用户交互与搜索结果展示：  
开发用户友好的界面，允许用户上传图片并设置搜索参数（如相似度阈值）。  
展示搜索结果，包括图片预览、相似度评分等信息，使用户能够直观地评估和选择相似图片。

# 四、本发明技术方案的具体实施

## 1、详细描述本发明为解决前文所提到的技术问题, 采用了那些技术方案细节, 为什么需要采用这些技术细节

**步骤1：颜色空间转换与局部特征提取**

1.1 **颜色空间转换**

* **1.1.1** 输入：用户上传的RGB格式图片。
* **1.1.2** 转换：使用图像处理库（如OpenCV）中的函数将图片从RGB转换到CIELab颜色空间。这是因为CIELab颜色空间更接近于人类视觉的感知方式，有助于更好地处理颜色信息。
* 1.2 **局部特征提取**
* **1.2.1** 预处理：对 CIELab 格式的图片进行预处理，以便应用 LDA 算法。
  + **1.2.1.1** 将CIELab图片转换为数值矩阵。在这个矩阵中，每一行代表一个像素点，每一列代表一个颜色通道（L、a、b），因此每个像素点由三个数值组成。
  + **1.2.1.2** 标准化数据。由于LDA对数据的尺度敏感，通常需要对每个特征（颜色通道）进行标准化处理，即使得每个特征的均值（均值中心化）为0，标准差（单位方差标准化）为1。
* **1.2.2** 划分区域：将图片分割成多个小区域，每个区域包含足够数量的像素点以进行有效的特征提取。这可以通过滑动窗口或图像分割算法来实现。
  + **1.2.2.1** 定义窗口大小：选择一个合适的窗口大小（例如，5x5）。
  + **1.2.2.2** 滑动窗口：将定义好的窗口从图片的左上角开始，按行和列的顺序滑动至图片的右下角，覆盖整个图片。
* **1.2.3** 应用 LDA：对每个区域内的颜色直方图应用 LDA 算法。首先，计算每个区域内的类内散度矩阵，然后计算所有区域的类间散度矩阵。接着，求解 LDA 得到最优的投影方向（即主成分）。  
  **1.2.3.1** 类内散度矩阵（）：对于每个区域，计算其类内散度矩阵，它表示同类数据的协方差。计算公式为： 其中， 是区域中的颜色直方图向量， 是所有 的均值向量， 是区域中像素点的数量。  
  **1.2.3.2** 类间散度矩阵 （）：计算所有区域的类间散度矩阵，它表示不同类数据的协方差。计算公式为： 其中， ​ 是第 k 个区域的均值向量， ​ 是该区域的先验概率， 是区域的总数。  
  **1.2.3.3** 求解 LDA：通过求解以下特征值问题来找到最优的投影方向（主成分）： 其中，w 是新特征空间的方向，λ 是对应的特征值。
* **1.2.4** 提取特征：根据LDA得到的主成分，将每个区域的颜色直方图投影到低维空间，得到该区域的LDA特征向量。

**步骤2：颜色直方图构建**

* **2.1** 区间划分：将CIELab颜色空间的L、a、b通道分别划分为若干个区间（例如，每个通道分为16个区间，每个区间宽度为8.75）。
* **2.2** 统计：遍历每个区域的像素点，将其CIELab值映射到对应的区间，并在相应的颜色直方图中增加该区间的计数。
* **2.3** 向量化：将每个区域的颜色直方图转换为一个向量，这些向量合并形成一个多维特征向量，代表整个图片的颜色分布。

**步骤3：特征向量生成**

* **3.1** 归一化：对步骤2中得到的特征向量进行L2归一化，使其长度为1，以消除不同区域大小带来的影响。
* **3.2** 特征向量：将归一化后的特征向量作为图片的颜色特征表示，用于后续的相似度计算。

**步骤4：相似度计算**

* **4.1** 交叉直方图：对于待检索图片，计算其颜色直方图，并与数据库中存储的图片颜色直方图计算交叉直方图。
* **4.2** 统计参数：从交叉直方图中提取统计参数，如对比度、同质性等。
* **4.3** SSIM计算：使用SSIM算法计算两张图片的结构相似性指数。
* **4.4** 相似度评分：结合统计参数和SSIM值，通过加权平均的方法得到最终的相似度评分。

**步骤5：数据存储与索引**

* **5.1** 数据库设计：设计数据库结构，存储图片的特征向量和相似度评分。可以使用NoSQL数据库（如MongoDB）或关系型数据库（如MySQL）。
* **5.2** 索引创建：为特征向量创建空间索引，如使用KD树或球树等结构，以加速相似度查询。

**步骤6：用户交互与搜索结果展示**

* **6.1** 用户界面：开发一个图形用户界面（GUI），允许用户上传图片并设置搜索参数。
* **6.2** 搜索请求处理：当用户提交搜索请求时，系统将提取上传图片的颜色特征，并通过索引结构查询数据库中的相似图片。
* **6.3** 结果展示：将搜索结果以列表形式展示，包括图片缩略图、文件名、路径、相似度评分等信息。用户可以通过评分排序或手动选择感兴趣的图片。

1. 生成像素点 RGB 色值集合：遍历像素点，将每个像素点的颜色 RGB 数据值存入集合中。
2. 简化颜色空间：将每种原色的取值范围 0-255 分成四个区，得到 64 种颜色组合。
3. 统计颜色组合：统计每种颜色组合包含的像素数量，得到关于颜色分布的 64 维向量，称为图片的“指纹”或特征值。
4. 相似度计算：通过计算两张图片的 64 维向量之间的相似度，可以使用皮尔逊相关系数或者余弦相似度来衡量向量之间的相似程度，从而判断两张图片的相似程度。
5. 数据存储与索引：将图片的特征向量以键值对的形式存储在 json 文件中，以支持高效的相似图片搜索。
6. 工具交互：提供相似程度筛选、待检索相似图预览、搜索结果预览、拖拽上传文件等功能
7. 相似程度筛选：根据相似度设置，可返回不同相似程度图片。相似度为 1 则为检索相同图片，如果没有相同图片，可适当降低相似度查找，会搜寻指定相似度以上的图片（如 0.8，会查找>=0.8 相似程度图片）
8. 待检索相似图预览：提供图片文件名称、大小、尺寸等信息便于用户查看
9. 搜索结果预览：列表展示检索结果，包含文件路径、信息等便于用户查看

## 2、本发明带来的有益效果：

* 通过结合颜色直方图和局部颜色分布，本系统能够更准确地捕捉图片的颜色特征，提高相似图片检索的准确性。
* 采用改进的相似度计算方法，不仅考虑颜色的分布，还考虑颜色的空间关系，使得检索结果更加符合人眼观察到的相似性。
* 优化的数据存储和索引结构使得系统能够处理大规模的图片数据，提高检索效率。

## 3、针对上述技术方案是否还有替代方案同样能完成发明目的：

除了基于颜色直方图的相似图片搜索方法外，还可以利用基于深度学习的方法来学习图片颜色分布的特征表示，通过神经网络等技术实现相似图片搜索。此外，也可以考虑使用局部特征描述子（如 SIFT、SURF）或者基于哈希索引的方法来进行相似图片搜索。这些方法可能会在精度、鲁棒性或者适用场景等方面有所差异，需要根据具体应用需求进行选择。

# 五、附件

参考文献  
<https://www.ruanyifeng.com/blog/2013/03/similar_image_search_part_ii.html>  
<https://www.ruanyifeng.com/blog/2011/07/principle_of_similar_image_search.html>  
<https://www.runnable.run/archives/javashixainwenzhangxaingsidubijiao>

工具截图：  
![](data:image/png; charset=binary;base64,iVBORw0KGgoAAAANSUhEUgAAA6cAAAPoCAIAAACtcB+eAAAACXBIWXMAABJ0AAASdAHeZh94AAAAEXRFWHRTb2Z0d2FyZQBTbmlwYXN0ZV0Xzt0AACAASURBVHgBAIiDd3wB8vLyAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYC9W/gD/y+bQFQoTczdnBwMGSSRCAAAAsNq5AAAA6PTqfsGLIhAeaDNdBwMHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4frseOiq/gD/AAAAAAAAAAAA9QkDimIbAAAA9QkCcOakiBhWHwYUDTw5CCMhBRkYAAAAAAAAAAAAAAAAAAAAAAAAALdnAUqaOY7a/3ElAAAAANuPj7cAcUkAALdnAUqaOY7a/3ElAAAAANuPj7cAcUkAAAAAAAAAAAAAAAAAAAAAAAC3ZwFK047a/3ElAAAAt4+P20lxJXHG/3G3ZwFKALb/mUkAAAAAAAAA24+MAKH//yUAAADbjzomSjoo2sZxJQAAAAAAAMdySi22//9JAAAAAABx/3G3ZwFKALb/mUkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQaWlpkZGR9vb2AAAAAAAAAAAAAAAACgoKaWlpEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/9+9m7vdI0ZmVSEBAAAA/+/NrKqaqzRWVTMRAAAA8M7OAERmZhEB///vzqyquqwQVlQyEQEB/9+9m7vdI0VlQyEBAAAA372Zu+8BABIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAd27vDNVZmYR///fvpq6ur4iZ0MhAAAA782rq83vI0VlQyEBAAAA372Zu+8BABIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECIiEsze7vAAIREA/9+9mrruNFZmMxEB///vzqyqqqwAVlQyICIkANze3vAyMxEAAAAA/+/NzNwAJEYyEQEB8AAAAAAAAAAAAAAA/9+9m7vdETRWZjMRAAAA/+/NzuAAMyEA/9+9mrruNFZmMxEB///vzqyqqqwAVlQyEADgvpq67jRWZjMRAAAA383N7yAyEQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJCQk+vr64+PjAAAAAAAAAAAAAAAAAAAAHR0dJCQkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA9vb22dnZFBQUGhoaAwMDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA8vLy9vb2AAAAFRUVGBgYAAAAAAAAAAAAAAAAAAAAAAAAAAAAExMTHBwcAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADw8PDw8P7u7u8/PzAAAACgoKJCQkAAAAAAAAAAAA3Nzc8/PzAAAADg4OGhoaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMahQMUAACAASURBVAAA39/fDQ0NFRUVAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA9vb29PT0AAAAAAAAISEhCgoKAAAAAAAAAAAA8fHx3Nzc/v7+CAgIEBAQ8/Pz9fX1AAAA9vb2CgoKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALxcqLxcqx+XN2e3dAAAAHg8bcjdmAAAAAAAAAAAAjsma2e3dAAAAKxUnUCdIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN3aygA2USMAAAAAAAAA//+6cA9UnwAAAAAAAABhrPGQRgEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEja7zyawAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAzOn4gMftgDkTBgMByef4gsjt+/7/BQMBgDkTNRcIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4fHkkcqdUihJPB02AAAAAAAA/v/+oNGqyebPAAAAAAAALxcqZzFcAwIDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1OvZmM2i+/78BAIEZDBYw+PK1evaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+vr6AAAABwcHAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AQEBAAAAAAAAAAAABwcHAAAA+vr6AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBQUAAAA4ODgAAAAAAAAAAAAAAAAAAAAAAAAAAAACgoKISEh2dnZ/v7+7e3tGRkZAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACwsLAAAA7Ozs////AQEBAAAAAAAAAAAAAAAAAAAAAAAA9PT09vb2AAAACwsLAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA7ff9AAAAAAAAAAAAAAAAYzAUZDAVAAAAAAAAAAAAAAAAAAAAAAAAZDAVAAAAndDsAAAAAAAAAAAA7ff9AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+P4K8/0J/v8B/wAB/gAB/v8C/wAA/gAC//8A/gAC8/YE5cIDAPv8Avz4Avz9Afz9Avz9KS4gAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIBAmIvVxEID0IfOxEJDwAAAAAAAEkkQgAAALDauQAAAPj8+dbs25HKnW82YwcDBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPX++Xfoqeb78AAAAAAAAAAAAAAAAAAAAPUJAwAAAAAAAOX773foqZ0cZAsCBwUZGAAAAAAAAAAAAAAAAAAAAAAAAAAA24+DmgBmtsZxJQAAAAAAAAAlcXElAAAA24+DmgBmtsZxJQAAAAAAAAAlcXElAAAAAAAAAAAAAAAAAAAAAAAAAADb2NMAAC0oJQAAAAAAAElxcQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACVxmXEAAAAAAAAAJXF9ZnJK2NwAACUAAAAAAAAAZraZSQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABgYGGVlZZaWlvv7+wAAAAAAAAUFBWVlZRgYGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP//37663BE0VkMhAQAAAAAAAAERM0Q03qrMzt8yQiEBAREzQzMAAAAAAAEBETI0JMy68PAAABD/37663BE0VkMhAQAAAAAAACBCVjPuqswAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP8RM0QyEAAAAAEBITI0EtzM3t9CICAA4M7M7hE0VkMhAQAAAAAAACBCVjPuqswAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA7vDwAP8Q787M3CRGZjMRAQAAAAEBETJENN6q3t7wMjIgMjQSqt7e8DMzEQAAAPDe3u4AJDQgAAAAAAAAAAAAAAAAAP//787M3P8jRlUzEQAAAAAAAAERMzMRAP//787M3CRGZjMRAQAAAAEBETJENN6q3t7wMjIA7u4AABISEAAAAAAAACEzMwAAAAAAAA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mZvd8AAAD//9+9mZmZvd8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKCgonJycdHR0DAwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAADj4+MAAAAAAAAAAAAAAAAAAAAAAAD19fX19fUeHh4LCwvp6ekAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUFBQoKCgoKCgoKCgoKCgoKCgoKCgoKCgAAAAAAAAJCQkoKCgLCwsUFBQrKysuLi79/f3l5eUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD6+vrz8/P9/f0AAAAAAAD4+Pjh4eHh4eHh4eHh4eH4+PgAAAAAAAD+/v7z8/P6+voAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAfHx8LCwsAAAAAAAAAAAD7+/ve3t7g4OAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADr6+vm5uYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHBwcAAAAAAADy8vIAAAAAAAAAAAAXFxcBAQEICAgjIyMBAQEAAAAAAADx8fEAAAAAAAAJCQkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADt9+/Z7d31+vUAAAAAAADo9Oqg0qqg0qoAAAAAAAAAAAAAAAAfHx8HBwcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABASNrvPLxrCt5MQ8ODg4ODg4ODg5Un2Gs8ZBGAQEAAAAAAAAAAAAAAAAAAAABAUaQrGHKeTEODg5Eld0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADM6fiAx+36/f8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAASCBBzOGcUChIAAAAAAAAvFypnMVwDAgMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADU69mYzaL7/vwEAgRoMlwtFikAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAwMZGRkAAADo6Ojt7e0AAAAAAAAAAAAAAAAAAAAAAAASEhIPDw/t7e3o6OgAAAAZGRkDAwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD////29vbd3d3p6ekAAAAKCgoQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABRUVFNTU0KCgoAAAAAAAD29vYAAAAAAAAPDw87OzsCAgIAAADHx8e1tbUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA6GgkZCwQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAZCwQ6GgkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAQMYBRXy/Qrz/Qny/Arz/Qny/Qru9wrNxg78AAL+AwL/AwP/BQNYSxiFRiMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAORszAAAAotKs/v/+AAAAAAAA3e/hmM2jbzZkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAVA82VA82AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJXHG/yhnAUoBmgAAAAAAAGa2/5kAAAAAJXHG/yhnAUoBmgAAAAAAAGa2/5kAAAAAAAAAAAAAAAAAAAAAAAAAACVxUNgBAQEAAAAAAAA5jtrGcSUAAAAAAABJmbZmAUomAXIAOY7axnGZ2o7TJkoBmgAAADmO2rZmJkoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmbZmAUomAXIAOY7axnElAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQHdu5vdAAAAAAAAAAAA/yNFZ0MhETNVZRK9m7ub3QAAAAAA//8RNFZlMxEBAAAAASFDVTPuq7ub3QAA/xEzVkYkqroAAAAAAAAAIUNnRgCZu6ubzQAAAAAAI0VWM+6qzAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIUNnRgCZu6ubzQAAAAAAI0VWM+6qzAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAe/Nq5vNAAAAAAAA//8jRmZlIQEBAAAAAAAAAAAAETNVVQCrq7ub3QAAAAAA/xEzVlQgAAAAAAAAAAAAACAiJADc3AA0RCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAETNVZRK9m7ub3QAAAAAA/yNFZ0MBAAAAETNVVQCrq7ub3QAAAAAA/xEzVlQgAAAAAREzIvCZmpoBAAAA//8RNFZUMxEB//8QEBIAAAAAAAAAAAAQEBIAAAAAAAAAAAAQEBIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABFzZBTAAAgAElEQVQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEGRkZFBQUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACQkJERER7+/v8/Pz3NzcHh4eBgYGAAAAAAAAAAAA6urqAwMDAAAACwsL6+vr+fn5BwcHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA5eXl5ubmAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGhoaGxsbJSUl9/f3AAAAAwMDGhoa29vbHh4eAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA7e3t6OjoAAAAAAAAAAAA+/v77u7uAAAAAAAAAAAAAAAAAAAAAAAA6enp6enpGBgYGRkZAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwMDKCgo39/f7u7uAAAA6+vrAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQUFGxsbERERAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFhYWFhYWAAAAAAAAAAAAAAAAAAAAGxsbGxsbAAAAAAAAAAAAAAAAAAAAKioqAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAxuTMtNu8AAAAAAAAAAAA8fnzx+TNAAAAYC5WAAAAAAAA7e3tnZ2d+Pj4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Ly8vLy8vLy8vLy8vLy8vKRRgAAAAAANofP8fLy8vLy8qxhAAA2h8/x8fLy8vLy8vLy8vLy8vHPhzYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP/dlUQODg4ODg4ODg4ODg5Eld3//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBI2u88vLy8vLy8s+HNgAAAAAAAAEBRpDPUa8xD0SV3f/dlUVU1YeZaiMBAQAAAP+6bw4ODg4ODg4ODg4ODg4ODjF5ygAAynkxDw4ODg4ODg4ODg4ODg4ORJXd/wAAAAAAAAAAAAAAAAAAAAAAAAAANofP8fLy8vLy8vLy8vHxz4c2AAAAAAAAAEaR8vLy8s+HNmGsz4c2Yazx8fLykUUAAAA2h8/x8fLy8vLy8vHxz4c2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAja7zy8vLPhzYANofP8fHy8pFIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3rivyjYmIwAAAAAAAAAAAAAAAAABI2t2YZ+1uwAAAAAAADYmIwAAAAAAAAAAAAAAAAAAAAAAAAC6bw5Eld0AAAAAAAAAAAD/um8ORJXd//8AAAAAAAAAAAD//7qSecphdmojAQH//92Wip8AYXZrIwEAAAABI2uZhzbKr7jd//8AAAAAAAAAAAAAAAAAAADdlUQPZwCZ8fGsYQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdlUQPZwCZ8fGsYQAAAAAAAAAAAAAAAAABASNqdmHKeZK6//8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPg5oAZn1xJQAAAAAAJXGhjjnHq7TbAAAAAAAAAAAAAAAAAAAAAAC3sJoAOY50SQAAAAAAJXGhjjkAmrC3AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGa2///////////ajgByJjqP2wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3ZwEBAQEBAQEBAQEBAQEBAQEBAUqaAMdyJgEBAQEBAQEBAQEBAQEBAQEBOo8kmf///////7ZmAABmfXElSZn/////////tmYAOY7a/////7ZmAAAAAAAAAAAAAADbj4MAtsZxJQAAAABJmbZmAGa2////2o45AGa2/5lJAAC3ZwE6j9sAAADbjzoBAQEBAQEBAQEBSpoAAJpKAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3ZwEBAQEBAQEBAQEBAQEBAQEBAUqaAMdyJgEBAQEBAQEBAQEBAQEBAQEBOo/bAAAAAAAAmkoBAQEBASZyxwCaSgEBAQEBJnLHAJpKAQEBAQEmcscAAAAAAAAAAAC3ZwFntwC3ZwFK047amUkAAAAAAAAAAAC3sJo5VUwlAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPg5pmtv/////////////////////GcSUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyHAhNKwwAAADx+P8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABFkM+H1VREld0AAAAAAAAAAAAAAAAAAAAAAAAAAAC6bw4ODg4ODg4ODg4ODg4ODg4PD1SfAMp5MQ8ODg4ODg4ODg4ODg4ODg4ORJXc/rpwMXkANgB5MQ8ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODkSV3f8AAAAAAAAAAAAAAAAAAAD/um9UnwAAynkxDw8ODg4ODg4ODg5Eld0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGs8fHy8vLxrGEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/3ZVEDg4PMXnKAADKeTEPMXnKAMp5MQ8ODkSV3f8AAAAANofP8fHy8vLPhzYANofP8fHy8vLx8c+HNgAANofP8fHx8axhAAAAAAC6bw4PD1SfAMp5MQ8ODm+7AAAAAMp5MQ8ODg4ODg4ODg4PDzF5ygAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAynkxDw8ODg4ODg4PDzF5ygAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADh4eHY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NgAiIN3fAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD//924r8oAAAAAAAAAAAAAAADKeTEODg4ODg4ODg4ODg4PD1SfAAAAAAAAAADeuK/KAAAAAAAAAAAAAAAAAAAAAAAAAABGkfKRRgEAAN3aygAAAAAAAAAAAAAAAAAAANqSRQ8ODg5UnwDKeTEODg4ODg4ODg4PVJ8AynkxDw8ODg5Eld0AAAAAu7WfNoduRQAAAAAA3rivygBhS0UAAAAAAAAAAAAiJSsAyq+43gAAAAAAAAAAAAAAAAAAAAAja7zyvGsjAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAja7zyvGsjAQEAAAAAAAAAAAAAAAAAAAAAAAAARW6HNp+1uwAAAAD//92VRA4ORJXd//8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA27SrxwBmUEkAAAAAAAAAAAAlKC0Ax6u02wAAAAAAAAAAAAAAAAAAAAAkKDkAAAAAAAAAAAAAAAAAAAAAOSgkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAlcX1mAMertNsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmf///////////////////////7ZmADmO2v//////////////////////xnElAAAAANuPOkrTjtqZSbdnAQEBAQEBAQEBSpoAx3ImAQEBAUqaAMdyJgEBOo/a249f2H2ZSQAAt2cBAQFnt0mZtgBKZ7cAJUxVOZqDj9vbjzpKALbGcSUAAAAlccb/////////2o45ADmO2v//////////////////////////////////mUkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmf///////////////////////7ZmADmO2v//////////////////////xnElAAAlccb/////////////////2o45AGa2////////////////////mUkAAAAAAABJmbYASgFK047axnElAAAAALdnAQEBAQFKmgDHciYBAQEBAQEBATqP2wAAAAAAAAAAAAAAAAAAAAAAAADbj19yAI50AGcBAQEBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPCAJtOxABAADf7vuw1PMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJ9UDw8ODg4ODg4ODg4ODg4ODg4ODg4ODg5UnwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABASNIUTbKeZK6//8AAAAAAAAAAAAAAAAAAAAAAABGkfLy8vLy8vLy8vLy8vLy8vLx8axhADaHz/Hy8vLy8vLy8vLy8vLy8vLyvGvecVQArPGZUQA2h8/y8vLy8vLy8vLy8vLy8vLy8vLy8vLx8axhAAAAAAAAAAAAAAAAAAAAAAD/um8PVJ8ANofP8fHy8vLy8vLPhzYAAGF2aiIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC4cA8ODg4ODg4ODg4ODg4xecoAn1QODg4ORJXc3JVEDg4ODg4xecoAAAAAAAAAAGGs8fHy8vLPhzY2h8/y8vLx8axhAAAAAAABRpHxmQBnDw8ODg4x2nbxmUgA3pZEDkSW3iJrvPLxdtoxDw8PD1QArLtrIwFGkfLx8axhADaHz/Hy8pFFAAAAADaHz/Hy8vLy8vLy8vLx8c+HNgAAAAAAAAD/um8ODg4xecqfVDF5yp9UDw8Ob7oAAAAANofP8fHy8vLy8vLx8c+HNgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD19fXz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/Pz8/MCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALuSecoAAMp5MQ9Fld3/AAAANofP8vLy8vLy8vLy8vLy8fGsYQAAAAAA//+6knnKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAmbrvx8vLyrGEANofP8vLy8vLy8vLy8axhADaHz/Hx8vLyvGsjAAAAu7WfACslIwEBAAAAAAAAAAA2JiMAAAAAAAAAAAAAACMmNgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEjJSsAn7W7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA5KCQAAAAAAAAAAAAAACQoOQAAAAAAAAAAAAAAAAAAAAAAAAAAJXGhjgByjLcAAAAAANuPX3IAjqFxJQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPOgEBAQEBAQEBATqP2wAAAAAAAAAAAAC3ZwEBAQEBAQEBZ7cAAAAAAAAAAAAAANuPOgEBAQEBAQEBATqP2wAAAAAAAAAAAADbjzoBAQEBAQEBAQFntwAAAAAAAAAAt2cBATqPt486AQEBATqP2wAAAAAAAAC3ZwEBAQEBAQEBATqP2wAAAAAAAAAAAAAA2486AQEBAQEBAQFntwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3ZwEBAQEBAQEBAQEBAQFKmgDHciYBAQEBAQEBAQEBAQE6j9sAAAAAAADbjzomq1XaxnElAABJmf///////////7ZmADmO2v////+2ZgA5jtr//8ZxAbSrx5pKAQEBAUqaAGa2ULABAUqaAJpKAQEmcscAx3ImJnLHAJpKAQEBOo/bAAAAAAAAAAAAt4xyAI6hcSUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3ZwEBAQEBAQEBAQEBAQFKmgDHciYBAQEBAQEBAQEBAQE6j9sAAAAAALdnAQEBAQEBAQEBAQEBAQEBASZyxwCaSgEBAQEBAQEBAQEBAQEBAQEBOo/bAAAAAABJmdqOOcertNsAAAAAAAAAAABmtv////////////////+2ZgAAAAAAAAAAAAAAAAAAAAAAAAAAAADYtKsAjqFxJUmZ/////6EAXwEBAQEBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMVkRAAACAASURBVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAbTwREAkD+v3/jsLv+/3/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABhrPHx8vLy8vLy8vLy8vLy8vLy8vLy8vLyrGEAAAAAum8ODm+6AAAAAAAAAAAAAAAAAAAA///duK/KAACfipbeAAAAAAAAAAAAAAAAAAAAAAAAAAAA//+6bw4ODg4ODg4ODg4ODw9UnwDKeTEPDg4ODg4ODg4ODg5Eld3/AAAARpHykUYBAAAAynkxDg4ODg4ODg4ODg4ODg4ODg4ODg4ODw9UnwAAAAAAAAAAAAAAAAAAAN2WRVQArPHx8XbaMQ9wuv/dlUQOMa9Rz/GQRgEBAAAAAAAAAAAAAAAAAAAAAAAAAADKeTEPDg4ODg4ODg4ODg4OMXnKAMp5MQ8PDg4ODg4ODm+6AAAAAAAAAAAAAAAAAAAAAAAASJDx8vLy8vLy8vLy8vLyz4c2AGGs8vLy8rxrI97aymGs8vLyz4c2AAAAAAAAAACfVA8PDg4OMXnKynkxDg4ODw9UnwAAAAAAum8ODzGvUc/x8vLy8pFGASMj3ZJ5AIeZayMBAAAAAUaR8vLy8fHPJooPDm+6AAAAAAAAAAAAAAAAAAAAAAAAAADKeTEPDg4ODg4ODg4ODw8xecoAAAAAAAAAAAAAAGGsz4c2YazPhzZhrKxhAAAAAAAAAMp5MQ8PDg4ODg4ODw8xecoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP//3ZaKn2FhYQA2h8/xdtoxRZLaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN6Wip9hYWEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADe29UAKyUiAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMp5MQ4ODg4ODg4ODg9UnwAAAAAAAAAAAAAAAP//3dvVADYmIwAAAAAAAADd2soAAAAAAAAAAAAAAAAAAAAAAAAAytrdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALpvDg4ODg4ODg5vugAAAP//3ZVEDm+6/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEVLYQDV293//wEBI2u88vK8ayMBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADc2McAAAAAAAAAAAAAAAAAAAAAAAAAx9jcAAAAAAAAAAAAAAAAAAAAAAAA3NjHAJpKAQEBAQEmcscAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALdnSpoAZn1xJQAAAAAAAAC3ZwEmq1Xa////////2o4AciY6j9sAAAAAt2cBStOO2v///////1DYj9sAAAAAAAC3ZwEmq1Xa////////2o4AciY6j9sAAAAAANuPjACh////////2o45mko6j9sAAAAAAAAAAADHckrYff/////GcSUAAAC3ZwEBStOO2v////////+hALS3AAAAAAAAAACaSl8Aof//////tmYAmko6j9sAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOY7a////////////tmYAOY7a////////////tmYAAAAAAAAAAAC3jHLHAMdyJgEBAQE6j9u3ZwEBAQEBAQFKmgDHciYBAQEBSpoAAAAAAAAAACVxxv///7ZmAAA5jtqZSUmZ////2o45AGa2/////////////////////8ZxJQAAAAAAAAC3Z0qaZn1xJbdnAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQE6j9sAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOY7a////////////tmYAOY7a////////////tmYAAAAAAAAAAABJmf/////////////////////ajjkAZrb//////////////////////8ZxAI86AQEBAQEmcscAx3ImAQEBOo/bAAAAAAAAAAAAt2cBZ7cAAAAAAAAAAAAAAAAAJXHG/5lJAAAAACVxxv+ZcXHGxnElAAAAAAAAAAAlccb//////5lJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACITBWQ3DxMKAwAAAAAAAEsqDDMcCAAAAJ/L8uTw+wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1dveAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEaR8rtqANvVAGFLRQAAAAAAAAAAAAAAAAAAAADeuK/KNoeshwB5krr//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANofP8fLy8vLy8vHxrGEANofP8fLy8vLy8vHxrGEAAAAAAAAAAAAAAAAAAAAAADaHz/Ly8vLy8vLy8vLy8vLy8vLy8vLy8vHxrGEAAAAAAAAAAAAAAAAAAAAjarzykUYBAQBFS2EAn1QPMXnKAGF2aiMBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANofP8fLy8vLy8vLy8vLy8vLy8vLy8vLy8vLy8vLy8vKRRgAAAAAAAAAAAAAAAAAAAAAAAAAAu28ORJXd/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACNrvLxrIwAAAAAAYazx8fLy8s+HNjaHz/Ly8vHxrGEAAAAAAEaR8vGsK3kxDw4ODg4ODg4ODlSfAMp5MQ4ODg4ODg4ODg4ODg8PMdp28fKRRgAAAAAAAAAAAAC4cA4Ob7sARZHy8vLy8vLy8vLy8vLy8vLy8vLy8pFGAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFGkfLy8vLy8vLy8vLy8vHxz4c2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAu5J5AIduSwAAAAAAAEWR8rxuJgDKeTEODg4ODg4ODg4ODg4PD1SfAAAAAADd2iuskEsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3drKNiYjAAAAAAAAAAAAAAAAAAAAAAAAAABGkfLy8vLy8vLy8vLy8vLy8vLyvGsjAQEAAAAAAAAAAAAAAAArJSIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADYmIwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/um9U1YfP8fHy8vKsAFQODg4PDzF5K6yRRgEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAytrdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADkoJAAAAAAAAAAAAAAAAAAAANuPOkqaAGa2/////////9qOOcdyJme3AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJpKAQEBAQEBAQGwUP///5lJAAAAAAAAANuPg5pmtsZxJQAAAAAAACVxoY45x6u02wAA29jTAAAtKCUAAAAAAABJcXElAAAAANuPg5pmtsZxJQAAAAAAACVxoY45x6u02wAAAAAlcZlxJQAAAAAAACVxfWYAx9jcAAAAAAAAAAAAAGa2mUkAAAAAAAAAANuPg5oAZrbGcSUAAAAAAAAAJXFxSQAAAAAAAAAAOY6hcSUAAAAAAEl0jjkAx9jcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMdyJgEBAQEBAQEBAUqaAMdyJgEBAQEBAQEBAUqaAAAAAAAAAAAASZn/////////tmYAAAAASZn/////////tmYAOY7a/////////8ZxJQAAAAAAAAAAt2dKmjmOoXElANuPOgEBASZyxwCaSgEBAQEBAQEBAQEBAQEBAQEBZ7cAAAAA2486SpoAZlBJAABJmf//////////////////2o45AAAAAGa2xnElAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMdyJgEBAQEBAQEBAUqaAMdyJgEBAQEBAQEBAUqaAAAAAAAAAAAAAAAAAADbjzoBAQEBAQEBAQEBJnLHAJpKAQEBAQEBAQEBAQEBOo/bAAAAACVxxv//////tmYAOY7a/7ZmAC0oJQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPOgEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQFntwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABVLg1LKQx0QBIBAQAfEQVdMw4AAADK4ve42PQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAUZLYcp5MQ8ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODg4PDzF5AIduRQAAAAAAAAAAAAAAAAAAAAC7knnKYXZrRmt2YZ+Klt4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMp5MQ8ODg4ODg4PD1SfAMp5MQ8ODg4ODg4PD1SfAAAAAAAAAAAAAAAAAAAAAADKeTEODg4ODg4ODg4ODg4ODg4ODg4ODg4PD1SfAAAAAAAAAAAAAAAAAADakkUODg4ODg4PD7VL8fHy8vLy8vJLtQ8ODg4ODg5wuAAAAAAAAAAAAAAAAAAAAAAAACslIgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJ9UDw8ODg4PVJ8AAAAAAEVuhwB5krsAAAAAAAAAAAAAAAAAAAAAAADe29U2JiMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANofP8fHy8vKsYQAAYazy8vLy8vLy8vLy8vLx8c+HNgAAAAAAAAAAAADeloqfAMp5rybPrABUDw8ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODg4Ob7oAAAAAAADd2gAmIwAAAAAAAAAAAAD/3ZVEDm+6//+6bw5Eld0BASNrvPIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAu7XVh5lqIgAAAAAAAAAAAAAAAAAANofP8vLy8vLy8vLy8vLy8fGsYQAAAAAARpGRRQAAAAAAAAAAAAAAAAAAAAAA///dlUQODkSV3f/dloqfNlFIIwEBAAAAAAAA3tvVACslAJZFDg4ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODkSV3f//AAAAAAAAAAAAAAAAAAAAAAAAACMmNgDK2t0AAAAAAAAAAAAAAN3aygAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUaR8rxrIwEBAAAARpHy8vLy8vLy8pFGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACQoOQDH2NwAAAAAAAAAAAAAANzYxwAAAAAAAAAAAAAAAAAAAAAAANu0q8cAZraZSQAAAAAAAAAlcaGOOQCasLcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABmtv//////tmYAmkpntwAAAAAAAAAAANu0q8cAmkoBAQEBAQEBAQEBASZyxwDH2NwAACVMVTkAmkoBATqP2wAAAAAAAAAAANu0q8cAmkoBAQEBAQEBAQEBASZyxwDH2NwAAAAAAAAAt2cBAQEBAQEBAUqaAAAAAAAAAAAAAAAAADkoJAAAAAAAAAAAANu0q8cAZlBJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC0oJQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA5jtr///////////+2ZgA5jtr///////////+2ZgAAAAAAAAAA2486AWe3AAAA29jTAC0oAI86AQEBAQEBAUqaAMdyJgEBAQEBAQEBOo/bAAAAAAC3Z0qaZrbGcSUAAAAlccb///+2ZgBmtv///////////////////////5lJAAC3ZyZyADk5AAAAAAAAAAAAAAAAAAAAAAAAt2cBASbYff////+ZSQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPoaNXAAAIABJREFUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA5jtr///////////+2ZgA5jtr///////////+2ZgAAAAAAAAAAAAAAAAAAAAAAOY7a/////////////////////////////7ZmAAAAAAAAAAAAAAAAAAAAAAAAAAAAALewmjkoJAAAAAAAAAAAANvY0wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAZrb////////////////////////////ajjkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAw9/3AAAAKBYGVS4Ocj4RBgMB7/b9lcbwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAARpHy8vLy8vLy8vLy8vLy8vLy8vLy8vLyz4c2AGGs8vLy8rxrIwEBAAAAAAAAAAAAAAAA/92Vip82h25FAAAARW6HAHlnld3/AAAAAAAAAAAAAAAAAAAAAAAAAAA2h8/x8vLy8vLy8fGsYQA2h8/x8vLy8vLy8fGsYQAAAAAAAAAAAAAAAAAAI2u88c+HNgAAYazx8vLy8vLy8vLy8vLy8vLy8vLy8vK8ayMBAAAAAAAAAAAAJm678vLy8vLyrGGfVA8PDkSV3f//RpHy8vLy8vLykEgAAAAAAAAAAAAAAAAAAN7b1QCfVA8PDg4ODg4ODg4ODg4ODg4ODg4Ob7r/AAAAAAAAAAAAAAAAAABhrPHx8vLy8axhAAAAAAAAImqZh9VUb7r/AAAAAAAAAAAAAAAAAAAAAAAAynkxDg4ODg4ODm+6AAAAAACfVA8PDg4OMXnKynkxDg4ODw9UnwAAAAAAAAAAAAAAAAAAAAAAum8OVJ8AAJ9UDg4ODg4ODg4ODg4OcLsAAAAAAAAAAAAAum8OMdorYQA2h5lqI0aR8vLy8vLy8vLy8fHPhzYAYazx8vLy8vLy8vLy8pFGAAAAAJ9UVAB2aiIAAACfVFSfAAAAu5J5ygCfVA8PVJ8AynkxDg4ODg4OAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEaRvGsjAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAynkxDw8PMXkrrPK8ayK7knnKAMra3QAAAAAAAAAAAN3ayjYmIyNrvPHxz4c2AGGs8fLy8vLy8vLy8s+HNgAANoeZaiMBAQAAAAAAAAAAANXb3gAAAAAAAAAiSFE2ANXb3gAAAAAAAAAAAN7b1QA2UUgiAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2JiMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAlTFU5ANPY2wAAAAAAAAAAANvY0wA5VUwlAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEmZtmYAmkpntwAAAAAAAAAAAAAAAGa2/////////////////////5lJAAAAJXHG///ajjnHciYBAQE6j9sAAAAAAAAAAGa2/////////////////////5lJAAAAt2cBAUqaZrb///////+2ZgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAx3ImAQEBAQEBAQEBSpoAx3ImAQEBAQEBAQEBSpoAAAAAAAAAACVMVTmasLcA27Srx2ZQSSVxxv////////+2ZgA5jtr//////////8ZxJQAAAAC3sJoAAJpKAQEBAQEBZ7cAAAC3sJoAmkoBAQEBAQEBAQEBAQEBAWe3AAAAALdnStOO2qFVAAAAALdnAQEBAQEBAQEBAQEBAUqaAAAAmkoBAQEBAQEBAQE6j9sAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAx3ImAQEBAQEBAQEBSpoAx3ImAQEBAQEBAQEBSpoAAAAAAAAAAAAAAAAAAAAAAMdyJgEBAQEBAQEBAQEBAQEBAQEBAQEBAQFKmgAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmf/GcSUAAAAAAAAAAAAAAAA5KCQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3ZwEBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMbg98Xg9wAAAFkxDR4RBf//AJLF8PL4/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP//3ZVEDg4ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODg4ODjF5ygCfVA4ODg4ODg5Eld3//wAAAAAAAP//3ZZnecphdmsjAQAAAAEja5mHAHmSuwAAAAAAAAAAAAAAAAAAAAAAAAAAynkxDw4ODg4ODg8PVJ8AynkxDw4ODg4ODg8PVJ8AAAAAAAAAAAAAAAAAAP/dlUUxecoAAJ9UDw4ODg4ODg4ODg4ODg4ODg4ODg4ODm+6/wAAAAAAAAAAAAAAAAAAAAAAAEaR8vLy8vF22jEPDw5Eld3//wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYazx8fLy8vLy8vLy8vLy8vHxz4c2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBI2p2YZ+1uwAAAAAAAAAAAAAAAAAAACNrvPLy8vLy8qxhADYmIwAAAAAAYazx8fLy8s+HNjaHz/Ly8vHxrGEAAAAAAAAAAAAAAAAA2pJFD1QArM+HNgAAYazx8fHxz4c2AABhrJBFAAAAAAAAAAAAAEaR8vGQSwAAAAAAAAAAAP//um8ORJXd/wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABhrPKRRgEBI2u88vGsYQDViorVh8/x8fLy8qxhADaHz/Ly8vLy8gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAu7WfAABhrPHy8vLykUb/3ZVFVJ9hrM+H1VREld0AAAD//93b1QArJSIAAAABASNrvPJLtQ8ODkRvb0QODg5nAJny8rxrIwEAAAAAAAABASMlKwDK2t0AAAAAAAABASNqdmHKeWeV3f8AAAD/3ZVnecphdmojAQH//7pvDg4Ob7oAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADe29UAKyUjAQH//92VRA4ORJXd//8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACVxfWbHcl+P2wAAAAAA249fcsdmfXElAAAAALdnAQEBZ7cAAAAAJXF9ZgCag4/bAAAAAAAAANuPX3LHOY50SQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEmZtmYAmkpntwAAAAAAJSgtAADT2NsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJXHG////tmYAx3KMtwAAJSgtAADT2NsAAAAAAAAAAAAAAAAAAAAAAAAAt7CaADmO2plJAAAAAADb2NMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJSgtAADT2NsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEmZ/////////////////7ZmADmO2v///////////////8ZxJQAAAAAAJXF9ZpqDZ4yrx2ZQSbdnAQEBAQEBAQEBSpoAx3ImAQEBAQEBAQEBATqP2wAASZn//////////////5lJANuPg5pmZmYAZrb/////////tmYAAGZQSQAAAABJmf/GcSUAAAAAAABJmf////////////////+2ZgA5jtr/////////////xnElAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEmZ/////////////////7ZmADmO2v///////////////8ZxJQAAAAAAAAAAAAAAAAA5jtr/////////////////////////////tmYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3jHLHLSglAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADb2NMAOSgkAAAAAAAAAAAAAAAAAAAAt2cBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACayPDy+P4AAAAAAACy1vPQ5fgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABASNrvPLy8vLy8vLy8vLy8vLy8vLy8vLy8vLy8vLy8vLPhzYAYazy8vLy8vLyvGsjAQEAAAAAAADelmd5AIfPkEUAAAAAAAAAAAAiapmH1VREld0AAAAAAAAAAAAAAAABAUaR8vLy8vLy8vLy8vLx8axhADaHz/Hy8vLy8vLy8vLy8rxrIwEAAAAAAADdlUQPMa9Rz/HxrGE2h8/y8vLy8vLy8vLy8vLxrGEAAAA2h8+RRgEAAAAAAAAAAAAAAAD/3ZVEDg4ODg4ODkSWI5Dy8vLyvGsjAQEAAAAAAAAAAAAAAAAAAAAAAADeuK/KYUtGAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABRpHykUYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABI2u88pFGAQEAAAAAAAAAAAAAAAABAUaR8rxrIwEAAAAAAAAAACZuu/HykUYASJnx8Uu1Dw8PDzHadvHykUYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3tvVNlFIIgAAAAAAAACfVA8ODg4ODg4ODkSV3f8AAAAAn1QODg4ODg4ODg4PVJ8AAFFRK3kxDw8ODg5UnwDKeTEODg4ODg4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAynkxDg4ODg4ODg4ODg4ODw9UnwAAAAAAAAAAAAAAAAAAAAAAAUaR8vLykUYBAAAA/7pvDzF5K6zxkUYjapmHAHkxb7r/ALuSeQCHbkUAAAAAAAAA/7pvVJ8AADYrJktRYQAAynmSuv//AAAAAAAAAAAAAAAARUthANXb3f//AAAAAAAAAUaRz4cAeTEPDg4ODzF5K6zxkUYBAAAAAAAjJjYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA///duK/KNiYjAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEmZ2o4AciYBAQEBASZyLbb/mUkAAAAAAAAkKDkAAAAAAAAAAAAASZn/2lWrJgEBAQEBAQEmci22/8ZxJQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEl0jjkAmoOP2wAAAABJdI45x3ImZ7cAAAAAAAAAANuPOme3AAAAANuPZ4/bAAAAAAAAAAAAAAA5KCQAAABJdI45x3ImZ7cAAAAAAAAAANuPOme3AAAAAAAAAADH2NwAAAAAANuPX3LHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJdI45x3ImZ7cAAAAAAAAAALdnZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2486AQEBAQEBAQEBAQEBAQFKmgDHciYBAQEBAQEBAQEBAQEBATqP2wAAAAAASZm2LZqaAI50SQBJmf///////////7ZmADkS/CtxAAAgAElEQVSO2v/////////////GcSUAAAAAAAAAt2cBAQEBATqP27eMcgCOdJmZ2iiDAQFnZ2cBAUoAtv+ZSQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2486AQEBAQEBAQEBAQEBAQFKmgDHciYBAQEBAQEBAQEBAQEBATqP2wAAAAAAAAAAAAAAx3ImAQEBAQEBAQEBAQEBAQEBAQEBAQEBAUqaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmf+ZJI86Spo5OdNKAQEBZ7dJmf/GcSUAAAAAAAAlccb/mUkAAAAAALdnJnLHAMdyJme3AAAAAAAlccb/mUkA29jTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA8vj+mMjw//8A3Oz6pc7zAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA///dlUQODm+6AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3ZVEMXkrrLtqIwEBAAAAAAAAAAAAAQEjapmHAHkxb7r/AAAAAAAAAAAA3ZVEDg4ODg4ODg4ODg4ODw9UnwDKeTEPDg4ODg4ODg4ODg4ODkSV3f//um8OMa9Rz/G7ayMBAUaRmQBnDg4ODkSVlW8ODg4OD7VL8vLyvGsjAAAAAAAAAAAAAAAAAAAAASNrvPLy8vLy8c9RrzEPDg4ODg4ODkSV3f//AAAAAAAAAAAAAAAA//+6knnKYUtFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdlUQODg4ODg4ODg4OMXnKynkxDg4ODg4ODg4ODkSV3f//AAAAAAAA3ZZFDg4OMTExDw+1S/Hx8vLyS7UPDg5Elt4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAu5J5ysp5MXC7AAAAAAAAYazx8vLy8vLy8vK8ayMBAAAAAGGs8vLy8vLy8vLy8axhACsla5Hy8vLy8vLyrGEANofP8vLy8vLyAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADaHz7xrIwAAAAAAAAAAAP//unAPigAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN2VRDF5AIfP8WsjAQ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AAAAC3sJoAZlBJAAAAAAAAAAAAAAAAt4xyxwAAAAAAAADbj4OaZrb/////////tmYAOY7a//////////+ZSQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA5jtr///////////+2ZgA5jtr///////////+2ZgAAAAAAAAAASZn////GcSUAAAAlccb///////////////////////+ZSQAAAABJmf///5lJJXHG/8ZxJQAAAAAlccb/tmaaSgEBAQEBAYMo2v//mUkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOY7a//////////////////////////////+2ZgAAAAAAAAAAt4xKSiYBAQEBAQEBJnLHAJpKAQEBAQEBAQEBOo/YAAAAAAAAAAAAAAAAAQAlccb//9qOOQAAAAAAAAAA2486gyjaxnElAAAAAAAA2486JnItfXElAAAAAAAAAAAAAAAAAAAASXSOAHKMtwAAAAAAAAAAAAAAAAC3sJo5jnRJAAAAAAAAAAAAAADbj4OaAAAAAAAAAAC3jHIAjnRJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2486AWe3AAAAAAAAAADbjzoBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2486AWe3AAAAAAAAAAAAAAAAAAC3ZwFntwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALdnAQEBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALdnATqP2wAAAAAAAAAAAAAAAAC3ZwE6j9sAAAAAAAAAAAAAAADbjzoBAQEBAQEBAQEBAQEBAQEBAQEBAQEBZ7cAAAAAAAAAAAAAt2cBOo/bAAAAAAAAAAAAAAAAAAAAAAAA2486ATqP2wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC3ZwEBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2486AWe3AAC3ZwEBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADbjzoBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADbjzoBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADbjzoBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADbjzoBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBAQEBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAALdnAQEBZ7cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALdnATqP2wAAAAAAAAAAAAAAAAC3ZwE6j9sAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAt2cBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAASZnGcSUAAAAAAAAAALdnAQEBAQEBAQEBAQEBAUqaAMdyJgEBAQEBAQEBATqP2wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPOgEBJnLHAJpKAQE6j7ePg5o5jtr//////////////////////////5lJALdnAQEBJnLHAJpKAQEBZ7QAADmO2v////+2ZgBmtv///////9qOOQAAAAAAJXHG////////2o45OY7a//////////////////////+2ZgAAZrb////////GcSUAAAAA24+DmjlVTCUAAAAAt7CaAJpKAQEBAQFKmgDHciYBAQEBAQEBAWe3AAAAAADbjzpKALbGcSUAAAAASZm2LXJfj9sAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACVxxv///////////7ZmADmO2v///////////////////////////////8ZxJSVxxv///////////////////////////7ZmADmO2v////////////////+ZSQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACVxxv/////////////////ajjkAOY7a//////////////////+ZSQAAANuPOgEBAQEmcscAmkoBAQEBOo/bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJXHG////////2o45OY7a//////////////////////+2ZgAAZrb////////GcSUAAAAA24+DmjlVTCUAAAAAt7CaAJpKAQEBAQFKmgDHciYBAQEBAQEBAWe3AAAASZn////////////////////ajjkAOY7a////////////////////mUkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAASZn/////////////////tmYAOY7a////////////////xnElAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEmZ/////8ZxJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANu0q8dmUEkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPOgEmq1Xa//+2ZjmO2v////////////////+2ZgAAADmO2plJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADbjzoBJnIttv///8ZxJduPOgFKmma2/5lJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmdqOAHJKcgCOoXElAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABJmf////////////////+2ZgA5jtr////////////GcSUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACIg3d8AgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACVxxv//2o45AGa2//+hAINyLbbGcSUAAAAA2486AWe3AAAAAAAAAAAAAAAAAEmZ////2o45AGa2////mUwAAMdyJgEBAQFKmgCaSgEBAQEBASZyxwAAAAAAAAAAAAAAAAAAJSgtx6u02wAAAAAAAAAAAAAAAAAAALewmgBmUEkAAAAAAAAAAAAAAAC3jHLHAAAAAAAAANuPg5pmtv////////+2ZgA5jtr//////////5lJAAAA249fcscAmkoBAQEBAQEBAQFKmgDHcl+P2wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMdyJgEBAQEBAQEBAQEBAQEBATqP2wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANuPOgEBAQEBAQEBAQEBAQE6j9sAACQoOQAAAAAAAAAAANuPOgFntwAAAAAAAAAA2486AQEBAQEBAQEBAQEmcscAmkoBAQEBAQEBAQEBAQEBAWe3AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACVxxv/////ajjkAZrb/////xnElAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJSgtx6u02wAAAAAAAAAAAAAAAAAAALewmgBmUEkAAAAAAAAAAAAAAAC3jHLHAAAAAAAAANuPg5pmtv////////+2ZgA5jtr//////////5lJAAAAAAAA2486ATqP2wAAAAAAAAAAAAAAAAAAAAAAAAAAALdnATqP2wAAAAAAAAAAAAAAAAAAAAAAAA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