2019

ICT Portfolio for Foodstuffs

*supermarket in newzealand*

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**Executive Summary**

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# About Foodstuffs (North Island)

Foodstuffs is the largest grocery distributor organization that is owned and operated as a kiwi organization in New Zealand. Foodstuffs distributes grocery’s to supermarkets such as PAK'nSAVE, New world, Four Square etc., and also to private label brands such as Value, Pams etc. and Foodservice Brands such as Gilmour’s, Trent’s Wholesale Ltd etc.

Foodstuffs was opened in 1922 in Auckland than over time it started to spread all over New Zealand, Wellington in 1992, Christchurch in 1928, Otago/Southland in 1948. There are two independent operated regional co-operatives for Foodstuffs, one is located in North Island and the other one is located in the South Island, and both of co-operatives have their own management team.

Foodstuffs located in North Island is operated under the supervision of CEO Chris Quin and there are about 1,700 people who work for the organization. The organization distributes goods to 96 New World, two Fresh Collective by New World, 44 PAK'nSAVE, one PAK'nSAVE min, 179 Four Square etc. supermarkets in North Island.

Foodstuffs located in South Island is operated under the supervision of CEO Steve Anderson, there are about 1,311 staff working for the organization, the organization distributes goods to 42 New World, four Raeward Fresh Stores, 12 PAK'nSAVE, 66 Four Square etc. supermarkets in South Island.

Foodstuffs is a Federation body for the North and South Island Foodstuffs, which is committed in delivering the best shopping experience to their customers and also to be able to provide the best service and best quality products to the community of New Zealand.

* 1. Vi**sion/Purpos**e

The vision of Foodstuffs is to be “New Zealand’s leading food and grocery retailer and wholesaler.” (Foodstuffs Annual Report, 2015)

* 1. Mission

The mission of Foodstuff is to be able to deliver the best quality eco-friendly products and service for better customer shopping experience.

* 1. Goals

Some goal that foodstuffs wants to archive are:

“Our Customers and suppliers prefer us”

“Our sales and market share continue to grow”

“And we can see a long and sustainable future ahead”

“Increase in market share”

“With exciting careers for future generations”

***(Foodstuffs Annual Report, 2016)***

* 1. Objectives

“Being a powerful aligned and engaged co-op”

“Being customer insight driven”

“Every brand winning its market”

“Being agile, efficient and able to compete with anyone”

“Unleashing our people potential”

***(Foodstuffs Annual Report, 2016)***

* 1. Values

We make sure New Zealanders get more out of life by thinking customers, staying in it together.

* We offer products within high quality at competitive prices.
* We provide more - great value, more time, meal solutions and healthy options.
* We offer our people great work environment and opportunities.
* We buy locally and regionally whenever possible.
* We live by these Values while maintaining a profit so that we can serve more for our New Zealanders.
  1. Key Business Functions

Different from traditional supermarket groups, Foodstuffs NI doesn’t own the stores. Each store has its own shareholders and owner. Here we will separate Foodstuffs NI and supermarkets into 2 sections.

* Retail

Retail department

* + Business partner management

Business partners (stores, venders) relationship, supervise company value, policies, services, store layout of each store.

* + Sales / Promotion

Make statistics of each brand’s weekly sales data, analyse the sale trend related to public holiday, back to school, consumer interest change etc. Compare sales and promotions with competitors. Publish next week’s promotions.

* + Optimization

Keep improve consumer experience, productivity, increase sales by applying latest technologies, integrated with other department, systems. Introduce new concept, ideas to optimize business.

* Supply Chain
  + Distribution Centre

Maintain all the DC across the North Island. Manager DC daily business: Inbound/Outbound/Inventory Management/Transport.

* + Transport

Vender management, fleet management, control stores’ delivery date, forecast transport demands.

* Information Technology
  + Core system

Manage company’s core systems. Like ERP, Integration, Supply Chain, payroll etc.

* + Digital

Apply digital solutions, BI report, data warehouse, OS/Office etc.

* + Infrastructure

Maintain IT infrastructures, including and not limited to network devices, computers, servers, mobile devices and information security.

* + Development

Develop and support IT in-house systems

* Mechanize

Develop and validate suppliers, maintain daily relationship with suppliers. Analyse industry environment and competitors. Organize bulk purchase with all the brands

* Own Brand

Manage 2 own brands “Parms” and “Value”. Design new products, manage manufacture venders, and the whole process from design to deliver.

* Finance

In charge of tax and compliance, financial reporting and control, cash management, investment and business strategy/risk management

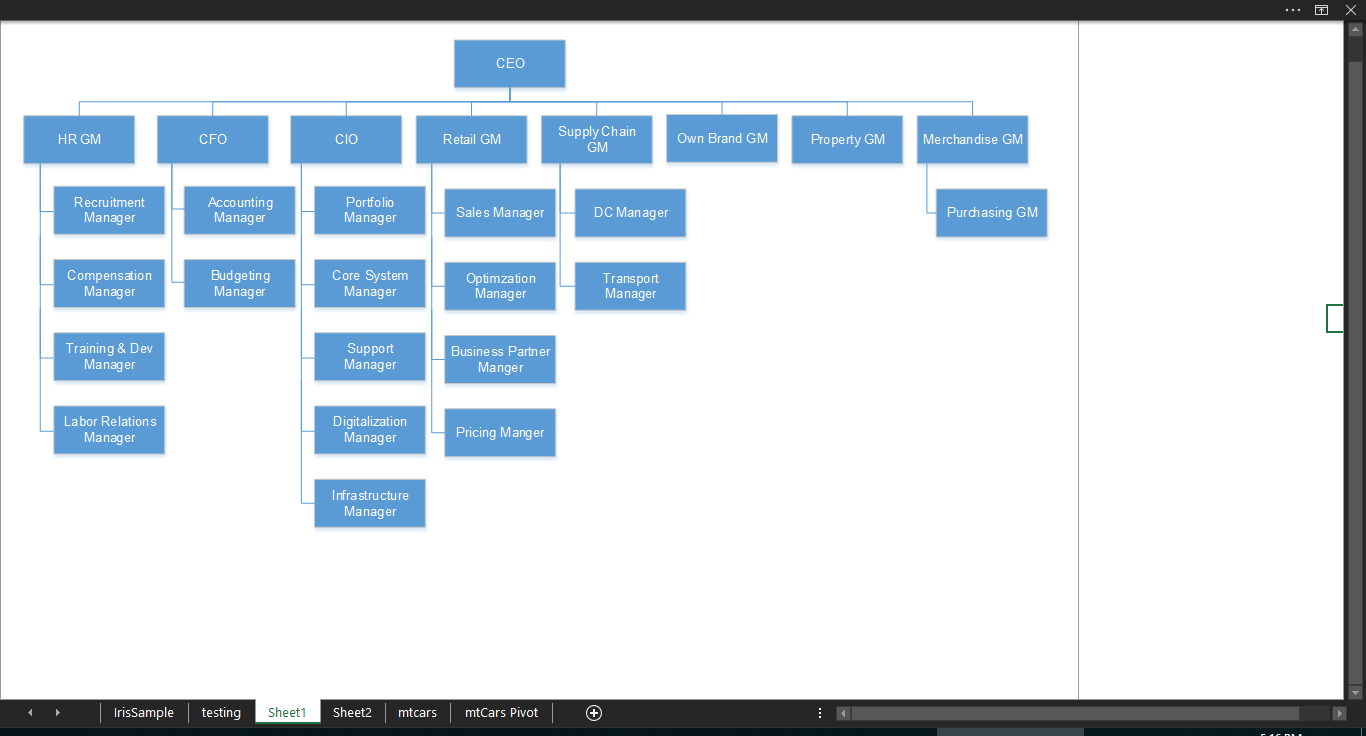
* HR

Talent acquisition and all staff’s contract management. Staff’s salary, position and promotion management.

* Property

Manage company’s properties, like land, vehicles, building, warehouses etc. Also manage lease contracts.

* 1. Organisational Structure



* 1. Summary

Foodstuffs North Island was funded in 1922 in Auckland. Until today, it is the largest supermarket group in New Zealand. Foodstuffs owns 3 supermarket brand Pak’n’Save, New World and 4 Squares, also including the whole sale brand Gilmours. As a liquor retailer, LiquorLand is belong to Foodstuffs as well. Foodstuffs owns 2 own brands, Parms and Value, almost covering all kinds of groceries.

Foodstuffs technically separates to North Island South Island 2 enterprise. This document is only talking about Foodstuffs North Island (Foodstuffs NI).

The Cole business functions for this big retailer company is retail, mechanize and supply chain department, these 3 departments covers the main business, from purchasing, operation, pricing, optimization to storage and delivery. IT and departments are key functions for every company. They make sure company can run smoothly, providing necessary services. Finance drive and make strategy about company’s revenue plan, also make sure daily routing billing, expense are correct.

As one of the largest companies in New Zealand, Foodstuffs NI is a classic example to analyse as it contains all the business functions, what are their responsibility and goals, how they cooperate each other to keep company the leader of the industry and keep developing, competing.

# ICT Infrastructure

2. 1. Introduction

At the beginning of the 21-century transition from the Industrial to Informational Society has happened. But Informational Society as a model of human development could not simply appear in an empty space. The serious intellectual and technological foundation is necessary for such kind of an event. It is primarily relying on computer networks. The internet of Everything is not some kind of a distant future.

So that is why modern enterprises hardly rely on ICT in their every day’s activities. A company without an ICT component in its structure is unthinkable for 21 century, no matter the size.

Both software and hardware parts of this equation are meaningless one without another. Hardware solely is just a collection of microchips, wires, and silicone. And software by its own is nothing but a set of meaningless phrases. So it should be considered as a part of one.

* 1. Hardware

Foodstuffs company uses various amounts of ICT equipment and technologies in its operations. Grocery stores equipped with Fujitsu Point of Sale (POS) controllers and touchscreens, integrated ETERNUS DX storage units, and PRIMERGY servers. The network infrastructure consists of wireless access points and also wired infrastructure such as switches and routers of different vendors. Employees of all levels are using desktop PCs, laptops, tablets, handheld computers with barcode readers, printers, scanners, and IP phones in their everyday work. Also, employees are encouraged to bring their own devices (BYOD). The core and distribution levels of the enterprise Foodstuffs network, online services, and SAP enterprise management platform some time ago migrated from local servers to a private cloud.

**Fujitsu POS Solutions** includes POS controllers, thermal printers, and touch screen terminals of various form-factor implementations.

**ETERNUS DX rack mountable hybrid storage unit** is a solution for small, medium size, and large enterprises. It has iSCSI, SAS, Ethernet (not in all unit models), and Fiber Channel interfaces. It has built-in RAID controller. It can host 2.5” and 3.5” hard disk drives (number of disk drives 96-6912 depending on unit model). Managing software SF Express is also included.

**PRIMERGY server** is a powerful and flexible solution for any size companies. Form-factors differ from tower-based form factor till rack mountable and modular form factors. It based on Intel Processors. The solution very flexible and can be completed with various additional modules such as fiber channel controllers, raid controllers, graphics coprocessors, etc.

* 1. Software

Foodstuffs has used the following software solutions in their brands:

* **Online shopping** - Foodstuffs has integrated an online shopping option for their customers at all of the Foodstuffs North Island stores to make it easy for the customers to buy their products online and after purchasing the products online it will be delivered to the customers doorstep
* **Self-service** – Foodstuffs has integrating a self-service option for their customers in their stores to make help their customers in avoiding standing in long lines at the checkout counter.
* **eXchange** – Foodstuffs used this system to make it easier for them to send orders to their suppliers. The originations have to send over four million purchase order to about 3000 suppliers and this was done through fax which was hard but with this new system, dealing with the purchase orders has been easy.
* **SRM** (Supplier Relationship Management) is a database that stores all the information about a product or person at Foodstuffs and it can be easily accessed.
* **GS1 ProductFlow** – a software that offers an easy, faster and reliable way to share or check product information between Foodstuffs and their trading partners, this software is a great way of creating a new or making additional changes to any existing products, either the product is online or on the shelf. This system is a great tool for checking for any mistakes before process the product further to ensure everything is correct in the first place and by doing this it helps in saving time and effort.
* **SAP** (Systems, Applications, Products) is a ERP (Enterprise Resource Planning) type of software that makes it easy for business to maintain product information such as inventory management, sales, orders, distribution etc., Foodstuffs has used this software before for their financials division and it was a success for them, now they have deiced to use the SAP retail system. The SAP software also has integrated the new point-of-sale (POS) for Foodstuffs. Foodstuffs has also moved all the operations relating grocery retail (pricing, promotions, orders, merchandising etc.) to SAP for Retail software. The warehouse management and the payroll system were also moved to the SAP for Retail.
* **RSM** (Retail Stock Management system) – is a system used by suppliers to enter product details such as the products price, quantity, pack size, description etc.
  + 1. Product data process

GS1 Product Flow, eXchange and SAP work together to keep product information organized



***Foodstuffs product data, n,d***

The above diagram shows how the three software’s work together.

**Step 1** - the product data is loaded into to the GS1 Product-Flow and then it is submitted to Foodstuffs by the vendor.

**Step 2** - the data is received and send to the Foodstuffs National PIM database through eXchange.

**Step 3** – in this step the category analysts decide in which range is the product data, either upper or lower, and if it is needed to improve the product data quality.

**Step 4** - in this step the product data will be reviewed by the National PIM team to make sure if the product data is completed or not.

**Step 5** – accepting or rejecting the product data. If the product data information is completed than the Foodstuffs North and South Island can use it in their systems and if it is not completed than the National PIM team will commutate with the vendor who supplied the product data in the first place for more correct product data.

**Step 6** – the local team of the Foodstuffs respond if they want the data in their system and the product data is transferred form the National PIM system into the Local system.

**Step 7** – the local team uses the SAP system to create an article for the product so that the product can be displayed and be ready for buying by the customer.

**Step 8** – Foodstuffs Ltd offers some suggestion/feedback regarding the product data process for a better commutation and experiences in the future.

* 1. ![A screenshot of a computer

     Description automatically 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AAJrnT6Tl4rPaLjunRta4kkQN7emH73Zdfe7q04/m1M8CAADuvfoiZYGw4MGbL+6++ixa2OAAAB6/+2rD+acmVk/vv6BBAAAAAAAAQI+SKTSaf8rnH78BJIka2ol7bxVOEdXXn38sOPYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD033jFibtvAYT6L0C8SCEVTx1dkZTRAAAAAACUm3zEiMppJY8eRudVF8QMH0LHIkkBAAAAAADA1kvPbL30zNP330UIGVSiqKHVzxlfzPAhAAAAAOy88lyWBBFFCBkMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAhP4vwKx6mSw+/tCsQ3e9+PhD9HDB5UoUyZRaGQEAANTLGV+vdZeFDBZEpngRFE8d3YdvvwEAxI4QUoxwwdWcfcKPX39FCBVMsuhhtCuUWJjgQQEAAAAA9CiZQtfVFwHUzxXfyO03lJ9yVKpYYTXLm9CuKy8ABAkUCAAAAAQJFAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECx1NG1LpAIvP3y040Xn4zbdcv5R+91KZYMAAAAAABAxrgRhPovCAAAAAAAABi85ZqzD95pWSCRxFFC+/33n+N33+i+5pL5DbMIHCgQAAAAWHfuiczxIwIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA/wKCaJQ7gUa5EwAAgOGV0gAAqJgxlooZYwEAgOKpoyueOjqYf+S+jHEj6F82Ffj4/beZB+5Yc+aJ+rniAwDY0DoXAABIHDW0tS1zAggTPKhB5VMDgG3t8wDY1j4PAMiWMJJsCSMB2NY+DwDIljCSbAkjAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgIEhhEDRtc1LDBJYoSWtUZx2WKF0HB5FEBAAAAAEDNbHEBAAAAAADArqsvHLj5yqpm2YUPGQxA4qih1c4eDwAAAAA8/fAdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADx691W4kEEBBATiw7dfsiaICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGKGD6Fyplh2XnmhYPKo4O6rz6YfuOvOq8+ihvlPnRzx5EwUGQDA0K3XxAofQr2c8cGq04/tvf7Csw/fZUsYSffiyQQKFAgAwKYLT9XLEU/4kMEAAAD8+fvPpL23nHv43s8/f5VKE0Pt7PG8+Phdp5UXvPn8U9tl58DwSmnEjhDSkduvLT/1yL3XXySKElrtbHFlSRARAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB0KprU9AN31Zp9wu8//0QJE0yVzHHkTRoFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQNyIoZy4+xb8+P1H22Xn9SyVXM5Ekb38+F3rZefEjxRKzPAhAAAA3H312defv02onkFAkEBGbr9h+oG7WuRPBADgzqsvqmSODQAAALZdfi5VzHDaF07q0/df2i0/L16kkPIkiWJx42xyj9hnYo0MIoYKBk7df2vy3tsGV0gtUZTQbr/8rOmiMyZVTy9VrHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEIGC9CxSFIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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kuZNEBgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANB/4xXhQwbTvnASnVZecPXpRwAAANva5wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD9y6YEsOnCM8fuvDG0YmoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGCBwUAECZ4UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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oX3/+Gr3zpouP3wsWJLDSaWOokjkOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC4EUM5cfctgC8/fwMYuuW6MVXTSRkzrJP33hq+7bq1LXMCAFjcOJtWS86qkDGWwimigbuvPvv687cJ1TMICBLIyO03TD9wV4v8iQAAAED0cMGliBHG0TtvJI4a2tWnHwULEljiqKHlTxbF0pOP1MgaFxy780aHIkkA9Fh7SaqYYS1unM3XH7/NOHhX/41X9C+bCvz598/UfXe0yJ9I6P8CAAD0Wn9Z3qRRFE8dHcCSkw+1L5RExyJJ7b72Qt/1V2xonUuwgMAAYMfV52pkjStNrHAuPHqvw8oLNsbPJfR/AeYfue/+my+m1MwgeNAgTt17C6D3+stSxQynR4nkYNDmq3ZdfaFIymgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4Mm7b8KHCiplzLAga4KIvv78AwAAAAAgYZTQEkYJDSBz/Ai2XHwGAAAAAHInjuzYnTfq5ohn/42X8iWNAvIljWLgpmsevf3qy4/f3n39KXfiyODuq8+uPP1oZOW0IOR/AVoVSKzgmANa5E8kWtjgoGrm2NLECgcAYPi26xJGDqV6ljgAIG+SKOJHDgUKp4hm4dEHTt57K3eSyACgSZ6EANLFCS9a2P/cf/1F6ljhrDj9yOSaGQQPGgRkSRAR3Hv9xZUnH42olBZAidTRbbrwTJGU0QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAw7dfxI0UEgBArAghBAkUyOn7b2WOH9GhW6+kiRUOAAAAAADsu/7SrmsvPH3/XYSQQf0DAAAAAORKHNmsQ/e8+/rT/huvDKuUBgQKFEi+ZFEcuPnKz99/5UocWaBAgcD9N19FD/sfAAgWEFjMcMHdf/1FtLDBQcRQwQAADN16zbdff02skR4AAABA5DD/ef35BwCAJ+++2X7lubMP3vnz95+3n3+Cd19/+vT9t9jhQwAAePDmizDBA3RZdREAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA8ff/N6jNPDCyXCgAA9CyZwpqzjy049kD8SKF0L5EMAAAAAMCMA3f8/vvPgLKpBA0S2J5rL2y6+AwAAAAAJI4aWpyIIZy+/06IYEEkihIaQL6kkS058VCQQIGUzxALQPxIId1/8xUA/Prz19MP38WPHAoAAAD0LJnCyXtv9dtwxcQaGQAAAMDdV5/VyhYXAPz49UfLpWf1L5NSo9wJQI1Zx0GEkMGEDR7gyftvEkYJDQBiRwjp159/RlVJCwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB+//kL3n756frzT8bvvqVc+pgKJo8KAAAGbLpqQvX0oocLDgAAACBsiKCevf/u288/fv3969mH79LHCS9okMD+/vvn5L23AAAAAAAgd+LIlp96JH+yqAAgX9IoBm665uefv0ZVSQsgYZTQMsWLYObBu+rljOfvX2YcvKtwiqiihQ0OAAAAoGqWOF59/mHwlmt6l0oB4Przj37/iSEgSGBLTzwUKVQwmeJFAAAvPv7w7x8Z4kYAh2698ubzTwAVM8ay8NgDPUumECwgsCO3XwsbIqg0scJJFDWUlaceqZolDrj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earzgtG7FkymTLqYN55+qkjm2RFFCg8RRQ6uaObaNF59JFSscAAAAAEgZM6wggQO59uyjFDHCOnDzlV4lU+i17pL6ueJ78OaLn7//ShkzLGhfOAmA/MmimLT3NgComjm2NLHCAVh5+pGxVdMJCBQIlM8QU7nJR7QvnAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADkSxZFvmRRHL/7xu5rLzVecFq34smUSRfThvNPVckcW6IooUHiqKFVzRzbxovPpIoVDgAAAACkjBlWkMCBXHv2UYoYYR24+Uqvkin0WndJ/VzxPXjzxc/ff6WMGRa0L5wEQP5kUUzaexsAVM0cW5pY4QCsPP3I2KrpBAQKBMpniKnc5CPaF04CAAASRQllQcOsAAAAiqWKLm7EkKBYqmjG7rrp64/f3n39JXyoIFLGDAuyJojo688/AAAAwgYPUCtbXBA0IJC0scK5//oLWHfuiXLpY4oWNjjIHD+iuUfue/Dmi7//uPLkoxGV0gIokTq6TReeKZIyGggU6D8Fk0cFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0H/jFSfuvgX+I1rY4LIliKh+zvhCBA0MAAAAAAAA4O+/f+rOOal+rvgKp4gGAAAAAAAAAAAAAAAAAAAAAKDRgtMCB/rPzDqZAAAAAAAAAAAAbLzw1KGbr42qkhYAAAAAAADAj99/7Lv+SvHU0QEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/P7715R9d5y89xYkixZGywKJRA4dDAAAAAAAAMCN5588+/BN/mRRAQAAAAAAAAAAAAAAAMCEPbdsv/Tc8mbZhQsRBAAAAIzffUuwgEBa5E8EAAAAAACg86oLYoYPoWORpAAAAAAWHnvgyO3XZtTJBAAAAG48/+TZh2/yJ4sKAAAAAAAA4MfvP/Zdf6V46ugAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALInjCR7wkjSxAprzdknyqSL6f7rL0qkjg4AEkQO5ezZJwAAAAAAIG/SyI7deSNK6GD+/v0nerjgggcJ7OHbr47cfiNv0sgAzj96b/fVF26++CRYQGD//gEAEUMFBfDx2y/vv/4y6+A9AJA8elgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANkTRpI9YSRpYoW15uwTZdLFdP/1FyVSRwcACSKHcvbsEwAAAAAAkDdpZMfuvBEldDB///4TPVxwwYME9vDtV0duv5E3aWQA5x+9t/vqCzdffBIsILB//wCAiKGCAvj47Zf3X3+ZdfAeAEgePSwAAAAAAAAAAAgaEAj8/vdPrAghBP7vP6fvv5U5fkSHbr2SJlY4AAAAAAABgQP5/usPePDmq++//jp57x2AUEEDvP3yy4dvP4UJHqDLqosAAABCBAkMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKB4mujaFUoCnn/4bubBu/pvumJEpbQAAAAAAAAAAv33n2wJIooeNjgAAAAAAAAAAAAAAAAAAAAAgIuP3/v5+6/ff/+68uSDVLHCAQAAAAAAAAAAAAAAAAAAAAC4+PiDi48/KJ46OgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAYVuvCx0swKjKaQUO9J/NF5/Zf+OVypliAwAAAAAAADhw85WEUUIBAAAAAAAAAAAAAAAAANh68ZmCyaPaeumZGlnjAgAAAAAAAAAAAADIGDeCUMECAwAAAIDoYYPJliAiAAAAgAM3X0kYJRQAAAAAAAAAuPj4g4uPPyieOjoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICIoYIKGvg/ED9yKPfffJUrMQD3Xn+RIFJIAAAAAACQL2kU43ffEjZEEPmTRQH5kkZx6NZrx+681ixfInD87hsLjj4wqFwqkcME8+7LT+WnHAUAABA2RBBhggXoWDSJGOFCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICIoYIKGvg/ED9yKPfffJUrMQD3Xn+RIFJIAAAAAACQL2kU43ffEjZEEPmTRQH5kkZx6NZrx+681ixfInD87hsLjj4wqFwqkcME8+7LT+WnHAUAABA2RBBhggXoWDSJGOFCAAAAAAAAAAAAAAAA6FkyhTVnH1tw7IH4kULpXiIZAAAAAAAAiB0hhNxJIiuZJgYAgNsvP/v1559RVdICAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAiB4uuOKpoxu46SoAAAAAAAAAgDaFkgAAAAAAAAAAAAAAAAAAAAAAgC2XniucIqo/f//Zcum5VLHCAQAAAAAAAAAAAAAAAAAAAAB49uE7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAXVdfWNU8h2hhg4NGuRMAAAAAAAAAAHj6/puEUUIBAAAAAAAAAAAAAAAAgK2XnkkdK5yCKaKasPuWGlnjAgAAAAAAAAAAAAComS0uAAAAAICiqaIDAAAAgKfvv0kYJRQAAAAAAAAAePbhOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADYdfWFZScfapo3oWTRw3jx4btFxx8qkSYGKJcupoGbr8qVKJL4kUO58+qz1WceG18tPQAAgJBBA3v56Qc49/C9DHHDSx0rnA/ffjl2541uxZOBfMmiGLzlmucffkgTKxx48fG7qGGCiRwmGNh6+TkAAACAalnimHv4vg5FkggZNMCT998cuvVa9SxxAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA7Lr6wrKTDzXNm1Cy6GG8+PDdouMPlUgTA5RLF9PAzVflShRJ/Mih3Hn12eozj42vlh4AAEDIoIG9/PQDnHv4Xoa44aWOFc6Hb78cu/NGt+LJQL5kUQzecs3zDz+kiRUOvPj4XdQwwUQOEwxsvfwcAAAAQLUsccw9fF+HIkmEDBrgyftvDt16rXqWOAAAAH79+QsAIEjgQAAAAAAGbLpqQvX0oocLDgAAAAAAAADKpo9p8t7bkkUPI1GU0L78+G3rpWeqZI4jcdTQEkUNZeWpR6pmiQMuPv7g3def8iWNAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgP8JwP//nuv///8/bjYbDIAxAAAALAQAFAChRBQQEAKhSAABAAUUkAgAAQIAAAAADAxm0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAl2/f23TmvvpF0wOo9esui9tFSp4wPth85r7Vx+6Y1KIomLr9kh0XHgkJClQxd2ptPs4KGk/bZ3DdfApGJNV3xUkNi0XYcva+E7eeCQsN0qFCdsUzJwcxsXHGbLrgxK0o8eMF+rRQOk1KZASPXr41YctFJ24/kzZJqEbFItTIH+7Ry7cmbLnoxO1n0iYJ1ahYhBr5wwEAQPS799aduGtV5zLex33QbOZ/ulXNISQoHrj04KXRG8+rVSDctnMP3Hr6WsXcqXWtkhPExn0wadtFR29EeRcb55OC6XzxUWYAAG3nHdKwaIRPCqUDMHvXFS/fvte9ai4rj9z297HbXr+LVShjMp0qZjf138vO3HkuJjbOF7P3y5EmsSF18wMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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w7GaUgIAAJbMk17VKTgC1ft1l8TeRft1y0bGbUbKlTmRA7bxShYW49OClsZvOq1M4veWHb4kXGKB3jdyO34yy6cx9r9/FalIio3pF0gNY+N9128898PJtrNLZU/i2cg5BgYEuPXhp9MbzahUIt+3cA7eevlYxd2pdq+R0//kb3y097vHLd7r+cRSMaFRQhuQJAQAAAAAALPzvuu3nHnj5Nlbp7Cl8WzmHoMBAsOzQLdvO3Xf32RuR2VLqWzO3gIAAlx68NHbTeXUKp7f88C3xAgP0rpHb8ZtRNp257/W7WE1KZFSvSHoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALDwv+u2n3vg5dtYpbOn8G3lHIICA8GyQ7dsO3ff3WdvRGZLqW/N3AICAiw9eFPU6xgxsXH+Pf9Q7vAww+oXMHrjeUeuP5U4NEinitkVzZQcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAEAAAAAAAAAAAAAAAAABAphSJ7L/yBLx9H6vrH8f0/ySPMtlTefD8jW//OCpLykQ+LZTO1/MP6VYlp3iBAWDtiXs+LZQOzN933eUHL834srigwEArj9w2edtl3avmBADQb+VJ+dMnsfDrSNFv35ux84ohq08bUjc/iP3wwaRtl3SpkkOqxCHm7r5q5IbzRjcpBE7efq5u4fTmti5pw6l7Fu+/IXvqxGZ9WcKJW1E6LToqMmsK4UlDzd933eUHL834srigwEArj9w2edtl3avmBKfvPFc+V2pjmhT25n2s75Yet+b4HXUKp7fw60gfj9xuYvOiUiSKDwAAAAAAAObvu+7yg5dmfFlcUGCglUdum7ztsu5Vc7ry8KXod+9NaFZUULwAozacN33HFR0rZgcnbz9Xt3B6c1uXtOHUPYv335A9dWKzvizhxK0onRYdFZk1hfCkoQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABg/r7rLj94acaXxQUFBlp55LbJ2y7rXjWnKw9fin733oRmRQXFCzBqw3nTd1zRsWJ2sOXMfT/VL6BzpRwmbL1o/r7rKuRKrXeN3JYdumXC1kt+/6okAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAFh74p7CGZMpkz0VSJMkVLV8aR24+kT9ohGKZExm3cm76hRO73bUayduRRnRqCBYeuimcU0LCwoMBPWLpldv8h7dq+YEAFcevnT6znOjGhcCCUOCdK6UQ+WxO3SsmF3aJKHgy9KZpUocAhqXyKD2hN2i374HSUKD1CqYDlTKndqwtWd1rJgdFMqQTOaUCd18Gi08aailh24a17SwoMBAUL9oevUm79G9ak6QJDTI55GZQPygQIUikrr26BUAAAAAAAAAAIClh24a17SwoMBAUL9oevUm79G9ak7ZUieWLXViACWyJLf2xF0ASUKD1CqYDlTKndqwtWd1rJgdFMqQTOaUCd18Gi08aSgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAWHropnFNCwsKDAT1i6ZXb/Ie3avmlC11YtlSJwZQIktya0/cBZArPEye8DAQmTWFcZsv+LJ0aVA5T2oTtl70Pi5OUGAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA75Yed+bOcwAAAOu7lwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3y097syd5wAAANZ3LwcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgCAAAAAAAAAAAAAAAAADgxpNXMqVMCK4/fuVNTKzey04AgHjpAsCnhdJZcvCWOoXTW3fyrk8LpQPPX8eIio4xa+dVAJAnPAkAgGuPo4UnCQEA8YMCpU8a6tqjV9ImCQUAkCQ0WHC8AA9fvgUAEBwUCOLHCwQQLyBAbNwHz1/HiIqOMWvnVQCQJzwJAACAoHiB3sTEAgAAAAAAAACA569jREXHmLXzKgDIE54EwPZzD2w+e9+dqDeSJwz2AQAAEBwUCOLHCwQQLyBAbNwHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPD8dYyo6Bizdl4FAHnCkwDYfu6BzWfvuxP1RvKEwT4AAACCAgPECwwAED8oEMTFIRAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAhdfMBWHP8rn2XHxvesAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAhdfMBWHP8rn2XHxvesAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgCAAAAAAAAAAAAAAAAgDtRry0/fNtP9fKDDMkTiH4Xa8AneQEAQMXcaUzedtm5u8+tPXHXxOZFQZIEwcJCgvSsnlO6pAkAAABAlpQJXXscDQBiYuPcefZGllSJAADAzSfRYmI/yJgioSsPXwEAAAAASJIgWFhIkJ7Vc0qXNAEAAAAAAAAAAAAAAAAAgCQJgoWFBOlZPad0SRMAAJix47L3cR/8WDe/4HiBtp69b82JuwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgSYJgYSFBelbPKV3SBAAAZuy47H3cBz/WzS84XqCtZ+9bc+IuAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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X7dknJI4eVv+yqQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBghAoeBLz4+F39uadsa58HwOLjD+y78cqn77+kjhVB+8JJABy788bSkw89efdN/mTRtC2UBMCq04/tvf7Csw/fZUsYRffiyQQKFMjKU4+8+/pTuJDBrD37ROM8/ymeOsD155/MPHjX7ZefpY0TQdSwIQAAAAAAAMDQrdfEjhhKvZwJwNR9tx24+VqIoIHlTxZNw9z/qT37hBcff7j98rP5R+6rmiWusuliufvqs+kH7rrz6rPo4UKokyO+nImigu5rLqmUMbY91186cOOV+Q2ziBE+JAAAAAAAAAAAAAAAAAAAAAAAAAAACAoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJcYfMqNuJsO3Xffy4w+rW+TQfc0lFTPGtvvaCxcffxAuZFDN8yWSKX4k8OvPX6N33nTx8XvBgwRWOm1MVTLHBa8//zBh9y0Xn3wQI3xIlTLGlj5uRJ1WXvDm809tl50DwyulESdSaAAAf/6RNUEkcw/f0zhPQgCLjj2QJnYE//79AwB//v4zbtdN5x+9FyhQIFkSRNK2UBIAJcYfMqNuJsO3Xffy4w+rW+Rw6NYri4498O3XX8GDBBIuZDAwvnp6D998Nf3gHbdffhYuRFB1cySQL1k00H3NJRUzxrb72gsXH38QLmRQzfMlkil+JAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsOvKC3uvv/TvH2+//NSjRHJFU8UA8OnHbwAAABvOP3H/zVcrmmUHh2+9BgAAMOfwPb1KpRAvcmhrzz4xbtdNixtnA73XX5YqVgQ9SiQHgzZftevqC0VSxjB5722Jo4c1qHxqP3//de7hOzB5722Jo4c1qHxqP3//de7hOwAAAFsvPVcoRXRRwoYAuRJHtfXScxUyxAZw5elHeZNGM7pKOt9//9Fp5QWbLjxVJl0s2y4/lypWBO0LJ/Xp+y/tlp8XP0poeZJEAwBl0sa09dIzpdLGBLDt8nMjKqX14M0Xsw/dtbxpduFDBXP5yQeRwwTXu1QKcw7f8+bzT12LJwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABw8OYrK04/Nr12RgBffv4GMP/IfffffDGlZgYhgwVx6t5bAB+//3b39RdjqqTz/fcfnVZesOnCU2XSxXL31Wdff/42oXoGQYMEMnL7DdMP3NUifyLw4dtvYUIENbZaOvEih/b1x2/tlp3TtXgyhVLE8P7rT4M2X5M4elgAAAAAAAAAsOH8E/fffLWiWXZw+NZrsLhxNq2WnFUhY2yFU8QAP37/0XbZeT1LJZczUVQvP37Xetk5CaKEEStiKHD9+SdZ/4usSuY4YoQPCQAAAAAAAAAAAAAAAAAAAAAAAAAAICgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAlovP7Lj8HEDNbPHUyREf/Pn3z9R9d7TIn0jYEEEBzDl8T69SKcSLHNras0+M23XT4sbZQO/1l6WKFUGPEsnBoM1X7br6QpGUMUzee1vi6GENKp/az99/nXv4TozwIS1unE3uEftMrJFB5DDBAQAAQMPc/6k07ZjSaWMJiBDS+68/zTt63/wGWVx49B4A9Fh7SapY4S1unM3XH7/NOHhX/41X9C+bCvz598/UfXe0yJ9I2BBBwdAt142pmk7KWOGdvPfW8G3XrW2ZE+y4+lyNrPGkiR3BhUfvdVh5wcYEuYQNERTMOXxPr1IpxIsc2tqzT4zbddPixtkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPz++9eUfXecvPcWJIsRTssCiUQNGwIAAAAAXHryweS9tz3/+N2EaukliBrGk3ffxI4UCgAAAAAAAAAAAAAAAAAAAAAAwMYLT03bdwcAQPZEUfQrkxIAAAAAAAAAdF51QayIoXQskhQAAAAAAAAAAAAAAAAAQOdVF8SKGErHIkkBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECRVDG0K5QEfPr+y+LjD3VcecGkGhkAAAAA/PvHzz9/3X75WeLoYeVOEhUAAECxVAHiRQ4NiqWKYeyum77++O3Fpx+uPPloRKW0AEqkDrDpwjNFUsYA77/98ubzD1HChpAtYRQA77/98ubzD1HChpAtYRQAAABbLz3TMn8iAKXTxjTn8D0VMsQGED5kULWyxQPBgwaWNnYE919/AaXTxgQQLmQwKWKGd+/1V3mSAACl08U0Zd8dN55/kiwgnMO3XosdMZTE0cN68OaLH7//uv78k6z/RZY6dgQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFsvPbfjygsfv/1SMm1MU2tlkDp2BAAAsOL0I5NrZhAyWBCQ5b/I4OWnH8KHDKpWtnggeNDA0saO4P7rLyBhtLASRgsLIHOCSLZcfAbg/defuhZPBmD7lReSBoRTKEUMEDF0cHEjhwYAAAAAAAAA8O8fP//8dfvlZ4mjh5U7SVQAAABbLj6XLm5EORNFBdHDh1QkZQwn771VPkNsEDhwIAWTRwcAAAAAAAAAAAAAAAAAAAAAAAAAAAAQFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKBU2pjaF04CAACgauY40sSOAACKpQoQL3JoUCxVDGN33fT1x28vPv1w5clHIyqlBVAidYBNF54pkjIGeP/tlzeff4gSNoRsCaMAAAAAAACIET6k+jnjm3fknh4lU5h/9L6KGWKLFzm0C4/eA7j76rMrTz8aWTktCB0iqFYFEis45oAW+ROJET4kqJo5jjSxI4An776JGCaYlLHCg6z/Rfb15x8ATfIkBJAubkQxwodw//UXqWNHAMVSBYgXOTQoliqGsbtu+vrjt9AhggIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAYVuvCxsiqFGV0woSOJDNF5/Zf+OVypniAAAAAIDxu26qnjWeIiljgNsvP1tw9L5B5VMDAAAAAAAAAAAAAAAAAAAAAACA6OFDmF0vMwAAAAAAAAAAAICM8SIJEyIIAAAAAAAAAAAAAAAAAADIGC+SMCGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIBwIYNpni+hvCP3u/H8k2QB4QAAAED5DLF9//3XqB03fP/1R7n0sVXMGBsAAABA8KCBwe9//zx480W4kEF1WXURAAB0LpbMgqP3tVp6TkD4kKpliStHoig6F0tmwdH7Wi09JyB8SNWyxJUjURQAABcevXf75Wf9N10FAO+//nL5yQepY0cAAABBgwT2/dcfAGvPPnbw1mufv/8WLEhgMcKHBAAQNHBgpdPFtOXSM8kCwtl2+bnSaWOC+FHC6FsmpdVnHhu69ZpiqQK0yJ8IAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAJRME6BtoSTWnHls7bknOhZOAgAA3n396dP33+JEDAUAAAAAggYJ7PuvPwD2XX9p17UXnr7/LlLoYP4BIHDgQADg4dsvEkULAwAAAAAAAAAAAKB8hti+//5r1I4bvv/6o1z62CpmjA0AAB68+eL7rz+6rLoIAILEDAQgVLAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEDkMMEBAABA8KCBwe9//zx480W4kEF1WXURAAB0LpbMgqP3tVp6TkD4kKpliStHoigAAAAAAAAa5PpPxWlHXX360ZZLz61rmRMAwP03XwWEDwEAggcNLFaEkO6//iJG+JAgcpjgAGJHCiVIoEBO338rc4LIDt16JU3sCACevPtm+5Xnzj5458/ff95+/gkAACB40MDg979/AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB2XX1hVfMcYoQPCRrl/g8AAAAAANx++UXmBJEAPH73FQAAAAAAAAAAAAAAAAAAAAAAAABAsCCBAQAAAAAAAAAAANTMFg8AAAAAAAAAAAAAAAAAAEDNbPEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECgQIH8Q9AggUAg/Pz9FwAAQPUscVXPEtfNF580XXhG9oSRxYoYCgAAAABAnEih/frzz6gqaQEAQNgQQbUqkFirAontvvbCmJ03rW6RQ9gQQbUqkFirAontvvbCmJ03rW6RAwDA1kvPNMr9n3o5EwCAOYfv2XrpmdSxIwAAAABov+K8gsmjG18tPRi14wYAAIAyaWNquuiMujniu/D4vSEVUgPIlzSafEmj+fjtl74brthy8ZlSaWMCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKiUKY6bLz4Ztu26/mVTAQCIFDq48CGDevL+m4TRwgIAAAAAgBkH7vj9958BZVMJFiSwPdde2HTxGQAAgBjhQ7ry9CMAAAAAAAAAAAAAqJ4lrupZ4rr54pOmC8/InjCyWBFDAQCIEymUrz//6FUqBQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQJ1Jov/78M6pKWgAAEDZEUK0KJNaqQGK7r70wZudNq1vkAAAAAAAAECRwIA1zJTBs23UNciYQNkRQAAAJooR2/81XAPDrz19PP3yXIGoYAAAAPUumsObsYwuOPZAgShjdSyQDP3790XLpWf3LpNQo93+gxqzjAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIFq4ELZffq5ezgQAAODI7deWn3rk3usvEkULq3a2eLL8F9nbLz91XnXBn3//tFl6DgB8+vFb7dknBEQIKXH0sD5//61zsWTg1acf6s45aUqtDBJGCwumH7gDmudL5NidN1aefuT2y8/iRwmtY5GkEkYLC0qMP2RG3UyGb7vu5ccfVrfIARYff2Df9Zc+//gjR6LIWhdMLGjgwAAAAAAAALqvuaRixth2X3vh4uMPwoUMqnm+RDLFjwQO3Xpl0bEHvv36K3iQQMKFDAbGV09v6NZrYkcMpV7OBG6//GzUjhtKpA6w9/pLj999kz9ZNG0LJQFw4OYrq08/9urzD3EihdKmYGLxo4QBv/78NXrnTRcfvxc8SGCl08ZUJXNc0H3NJZUyxrbn+ksHbrwyv2EWcw7fEztiKPVyJnD75WejdtxQInWAvddfevzum/zJomlbKAmAyXtvO3TrtX/+iRkhlEAokDy6culjAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB49emHZScfShkznETRwoKUscLbc+2lmtniefL+my0XnwE49/CdyGGCix8ljGhhQ/j995+IoYIBAAAAAIDE0cNKFD2MlaceqZolLrj4+IN3X3/KlzSabZeeyZ8sulDBgwgWJLAIoYOBbZeeyZ8sulDBgwgWJLAIoYMBAPjy47ctl55b3jQbAICCyaOrP++UtoWSAAAAALj36ouUBcKDB2++uPvqsxjhQwIAgITRwkoXJ6J9118qnTYmgNeff7j36oss/0UWPlQw3379ETF0MBAuRFBXn34EV59+lDJWeAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN1LJNdg/mmLjz9QO3t8AAAVM8a28NgDPUumEDxoYEduvxY+VDChggUBAAAAzz58lz5uRMGCBPb33z8n770FAAAAORJGMWXfHWcfvJMxfiTnH713//UXyQLCAQAAgE/ffwGAcCGDAYBzD9+JHCa4+FHCiBY2hN9//4kYKhgIHyqYZ++/+/bzj19//yqaKsDi4ycduvVKniTRwO5rL6SMGV6siKEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPj15y8AgGBBAgMAAAAAAEgcPaxE0cNYeeqRqlnigouPP3j39ad8SaPZdumZ/MmiCxU8iGBBAosQOhiAcCGCevzum68/f4sTKTQAAACAculje/fll5rZ4gEAgITRwsoUP5KZB++qlzO+v3+ZcfCuwimiixE+JAAAgAGbrppQPb2ACCEBwIuPP/z7R4Z4kcChW6+8+fwTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAtC2YxNjdN2268EyhFNEVSB5d8oBw4NT9tybvvW1whdQSRQvr9svPmi46Y1L19FLFjmBu/SzyjdxvVJW0YkYIBVaeeuTSkw8GlU8Nrj79qPf6ywAO3Hylef6EDt58LWG0sODI7Td6lEgOTtx7q2vxZGJGCGXNmcfG7bplUs0M4M+/f6buu6NF/kTChggKFh574M7Lz2bUzSRo4MDWnn1i8t472hdOAgAA7rz6osT4QwCSxwxnXLX0AOYcvqdXqRTiRQ5t7dknxu26aXHjbGDoluvGVE0nZazwTt57a/i269a2zAkAAK48/Shv0mhGV0nn++8/Oq28YNOFp8qki+Xsg3dmHbxrTNV0YoQP6fT9t4ZsuWZm3cyg9/rLUsWKoEeJ5GDQ5qt2XX2hSMoY4PrzT7L+F1mVzHHECB8SAMCVpx/lTRrN6CrpfP/9R6eVF2y68FSZdLEsPPbA779/rWiWHQzcdFXGeBGVThcLAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwPZLz22/9BxECRtcmtgR9CubCkDbgolN3HvbunNPpI0TQbN8CU3ddwf8/ce43be8/PhD2BBBDC6fSugQQQEAAABAuBBBAYyolNa4XTfVmn1CIKSIGV6bgonB77//dFhx3qcfv8WOGEqPEsnB77//dFhx3qcfv8WOGEqPEskBAGy99EzmBJHEiRQaAMB/UcNIFyeCrZeeSxsnAgAAAKiXM4Fe6y4LHTyITPEjKZ46wIdvvwEAAJROG1OfDVcsa5INwK8/f2259MyonTeEDBpEiTQBciWOCgokj27v9ZeqzjimeKoAKWOFBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEChQIN1LJNdz7SVJooeVIGoYYYIHBdA4T0JzD9/TcP4pgQIFkiFeRB2LJHX75WcAAABQNXNco3fesP78UwmihFYvZwIT9twCAACQIGoYfUqnMGnvbYECUSBZdLmTRPXq0w8AAADbLz23/dJzAEGDBLKpTW4A8Pcf43bf8vLjD2FDBDG4fCqhQwQFZdPFMnX/HbuvvVAjazzFUweYUiuDiXtuG7frlihhg8uVKKrCKWIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALDj8nM7Lj8HAC0KJFI2XSxBAgUCAAAAAOFCBAUwolJa43bdVGv2CYGQImZ4bQomBr///tNhxXmffvwWO2IoPUokB1AzWzz9N14RI3xILfInlDZORAAAAAD1cyUAAAAAQyumNn7XLQ3nnxYIWf6LrH/ZVACCBAoEAKBYqhjarzjv/ddfIoUOJnakUOrmiC9tnIgKp4iu3JQj4kYKJVfiqHImigIAAADChQgKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFEsVoFiqAAAAALmTRJU7SVQAAADb2ucBABFDBzelVkYAAG0KJQEAMK12RgAQOFAgQyumAQD5k0UHsK19HgAAUCVzHFUyxwEAAABQNl0sZdPFAgAAMLxSGgAQLEhg29rnAWcfvvPk/TfLm2YHP37/deDGK3MO3zOhegY9S6YAkDh6WFvb5QEALfInAgDZE0aRPWEUAAAAHYokBQAAwyulAQDQs2QKAImjh7W1XR4A0CJ/IgBT99/Rr0xKiaOHBS8/ftdp1UW5H72XPm5EAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHr/7JmSwIABCBA3s6ftvksUIBwAAAAAAAAAAAAAAAAAAAAAAAAAAAB68+erLj98Afv7569P3XxJGCwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACUTRfLgi/31Z93yo/ff4QNEVTRlDHUz5UAAAAAAAAAAAAAAAAAAAAAAAAAAAAADCiXyrKTDw3Zck2gQIEkjRHW8EpphQ8ZDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIB6OROolzMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABIEzuCNBXSAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAL///jVl3x0n770FyWKE07JAIlHDhgAAAAAAAABw4/knzz58kz9ZdAAAAAAAAAAAAAAAAAAwYc8t2y89t7xZdhFCBQMAAADjd98SImhgLfInAgAAAAAA0HnVBbEihtKxSFIAAAAAC489cOT2azPqZAIAAAA3nn/y7MM3+ZNFBwAAAAAAAPDj9x/7rr9SPHUAAAAAAAAAAAAAAAAAAAAAgKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAL///jVl3x0n770FyWKE07JAIlHDhgAAAAAAAAAA5x+9N3TLNZNqZhAjfEgAAAAAAAAAAPDwzVeT9912++VnkcMElyNRFI1y/wcAAAAAYPvl55adfOjT99/WtswJnrz7JnakUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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6XI2scaWJFc6FR+91WHnBxvi5hA4WAAAAAGDTxWfWnn2icMpomuZNCABgx9XnamSNK02scC48eq/Dygs2xs8ldLAAcP35J1kTRFQlc2zRwgYHZx+8Uzt7PDPrZHLzxSftlp2XMHIoGeNFsPDYA3defjajbiYBgQNbe/aJyXvvaF84CQCAJnkS6L/xquLjDymaKpqCyaPKnjAS+PH7j7bLzutZKrmciSJ7+fG71svOiR8plJjhQ4A5h+/pVSqFuBFDWnv2iXG7blrcOBsAgFP335q897bBFVJLFCW02y8/a7rojEnV00sVKxy4/vyTrAkiqpI5tmhhgwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPj9968p++44ee8tSBYtjJYFEokcOpiVpx65+OSDweVTAwAAAAAAAAAAAAAAgHKTjxhROa3k0cMAAOi/8YoTd98CCBUsQLxIIRVPHV2RlNEAAAAAwMYLTx26+dqoKmkBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABA2OD/KZkmuq2XnksRI6znH747dOu11gUTAwAAAIAmeRICSBcnvGhhg7n/+ovUscIBAAAAKJM2htYFE+uy6qL+G6/oXzYVAGiSJyGAdHHCixY2mPuvv0gdKxwIHDiQgsmjAoDIYYLJnSQySBotjGKpozly+7WM8SJYefqRsVXTCQgcGJTPEFO5yUe0L5wEAEC0sMFNq53R9Wcf7bvxSr8NVxRJGU3nYslsufhcujjh5UwUGUQNG1yRlNGcvPdW+QyxQLFU0cWNGBIUSxXN2F03ff3xW8hgAQBgw/mnqmSOLVGU0CBx1NCqZo5t48VnUsUKBwIHDqRg8qgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAhm29LnSwAKMqpxUkcCCbLz6z/8YrlTPFBgAAAAAAAAAAAAAAAAAAAAAAUCx1dK0LJAJvv/x048Un43bdcv7Re12KJQMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACl08bQYcUF7QoltvXSM7kTRxYrfAgAAAAA8OTdN9uvPHf2wTt//v7z9vNPAAAAAAAQOFAgvUun0GTBGQuPPVA3RzwAT959s/3Kc2cfvPPn7z9vP/8EACH+CwIAAAAgcuhgbr747OO3X95//WXWwXsAIHn0sAAAACB5jLCSxwirWKpo6s49pVm+hB68+eL7rz+6rLoIAILECAQAAIIGBAa///0DAHD/9RclUkcHAAkih3L27BMAIf4LAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB2XX1hVfMcooUNDhrlTgAAAAAAAAAAAAAAAAAAAAAAAAAAAoIEBlHDBhc1bHCJooRWdcZxmeJFUDB5VAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGljh5cgcijbr7yw5dIzHQonBQAAAAA/fv3RculZ/cuk1Ch3AlBj1nEAAAAAAAARQgbVp3QKrZaekyhKKLkSR/bj1x8tl57Vv0xKjXInADVmHQcAAAAAAHDn1RdxIoYQNsR/wgQL0LFoEjHChQAAAADw5+8/QQIHAhA1bHAQNEhgsSOE8PXnH71KpQAAAAAAAAAAED9yKPfffJUrMQD3Xn+RIFJIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAH3WXxYhVFAdiyQFAPDi43cN5p0yqWYGR26/ceT2azPqZAIAAACw88pzWRJEFCFkUAAAAAAAAAAAsP3yc8tOPjS3fhZBAgcCAL3WXRY5dFAdiiQFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUcIEs/3yc/VyxgcAALD81CM7rzz38/dflTLFViFDLAAHbr6y+vRjrz7/EDtCCG0KJhYvUii3X342ascNdbLHM+vQXcmihxEqWICvP//oUSI5gFP33pp24I659bMAAAAAAACAmOFDqJwplp1XXiiYPCpYdfqxvddfePbhu2wJI+lePJlAgQIBAPj156/RO2+6+Pi9oEECK502hiqZ44Bjd96Yd/S+919+ihE+hMZ5EkgTKxwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAonTaGo3deCxI4kNxJIgMAAACAFx9/+PePDHEjgEO3Xnnz+ScAAAAAAABIFye8bsWTGbLlmjn1M/v1+59//8gQNwI4dOuVN59/AgAAAHj58bvH776KHSGkMw/e2XX1hZXNsoNqWeKYe/i+DkWSCBk0wJP33xy69Vr1LHEAwJN33zRZeFrTvAllSRDRv3//rDj1WMk00QX7L4iiqaJbfPykQ7deyZMkCth97YWUMcKKGT4EAAAAAAAoly6mgZuvypUokviRQ7nz6rPVZx4bXy09AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgNJpY+i1/rJ2hZIIEjgQANhy8Zmk0cJIFCW0Oy8/y5YgIgAAAABYd+6JzPEjAgAAAAAAAAAAKJ46ur3XX5p58K4W+RMBOHDjlYuP31vZLAcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAYOnR28pEJZc4fhwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACRSeJZ06U0AAAAgOq5U6meOxUAAKidN0LtvBEAAKrlClctVzjInCKh1Z1LA4D25TIBgNRJ4hvaMA8AgFSJ4ulfJycAAGhbNpO2ZTMBAACAZR1LAgAAKJUluVJZkoMhDXIDgNiBsazpUhrA4M9yA4ByWVMAWNaxJACAoMBYauZOBQBq541QO28EAABoVjydZsXTAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGhYMDUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgMPXnoiJiZEndSIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANB/+Sn7Lj8GAPBd+Uxq540AAAAAAAAAAN0XHhOROJ5ulaMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsPXpbzTwRAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoGqucB3KZwIAAAAAAAAAAABQIG0SCYIDAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwIC6OQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABA7MBYAAAAAAAAAAAAAL4omhYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAED1v3YYUDenJUduOX7rmWzhIX6smlWK0Lhgx4UHZu255s2HT+IEBgiJGxv81SSfwavPiEwcT4sS6S04cMOT1+/FihVg7+XH3n2I1qBgavXzRwKYvfeaLWfve/kuWvFMSXWskFlQrFjg8oOXJm677NKDl1KEBGtWPJ0SmZKDnxef0KBApE1n79t27oF/WhaWMjQuAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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7d0UiRIjwHgD+/PlzJEiQIO0B3v6M4+i5RwAgWrRosscKDgCrAdEB4O/LS8Cvr/4+Pi5wysogUKBAoQEAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB2XH2uRta40sQK58Kj9zqsvGBj/FyyJ4xkwMarHrz5Il6kUG6//CxRlFAO3nqlYsZY4Mjt1/ImjQIWHnvgzsvPZtTNJCBwYGvPPjF57x3tCycBAAAAADB6502JooRWNUscAADLTj7UrXgy4UIGNXrHDXOO3NejRHJ3X3329edvE6pnEBAkkJHbb5h+4K4W+ROBK08/yps0itFV0vn++49OKy/YdOGpMuliWnjsgd9//1rRLDsYuOmqjHHDK50uJgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPj161fuIEGCbAsUKFBoAABkDhcu3DTUAIBDhw6tz5cv3/VAgQIlhwgRIogbN64XL16AwIEDS5o0KQD4/fv3CgAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAmeRICSBcnvGhh/3P/9RepY4WTN2lkR++8ES9SKAduvpIjUSSLjj3w4dsv4UIEdeT2G5NqZAArTz8ytmo6AYEDg/IZYio3+Yj2hZMAAAAAgC0Xnzl2540FDbMAAIAaWeOKECoYyJkosjmH74GEUUJLGCU0gMzxI9hy8RmAsMED1MoWFwQLCCxtrHDuv/4CHr79KluCiABSxAjj5acfAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4N27d+HDhAmTP0iQIMkQG6HxHo9///595d27d4ejRo36GQC+f/+eOCAgIDsC/v379/zx48f7EyRI8P3nz5/pgwYNmg+JERrXf/78ueW///67DABfv36NHSxYsPxBggRJhPiAx3/+/Hnw58+fw//99991AAAAgHfv3oUPHTp05oCAgFSIjNiAx3/+/Lnz+/fvw8GDB78NAPDr16/cQYIE2RYoUKDQAAAAgQIFqv7r168lv3//vhwiRIj7UKBAgd///v3bjeQQEBAgVapUPn/+7MuXL5IlSyZixIgA8P3du3fHAQAAAAAAfv/+XR/fv3//vj906NDPAQAAAH78+JE6SJAgmeHfv3/3Dx8+fLhAgQK/AQAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIBAACevPtm+5Xnzj5458/ff95+/gkgb9IoVpx6pEbWuPbfeGV23UwevPnq4M1XEkYJLXLoYGJFCOHjt1/ef/1l1sF7ACB59LAAAAAA4NHbr8bsvKlf2ZQihAwGAAAAIGiQQH79+Qtg3/WXdl174en77yKEDOofAAAAAoIE9v3XH5AudjiHbr1WOEVUv/78c+T2G9WzxgEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAL9//y4fOHDgZoECBSqMAAAACAgIECVKlO9///7d/OfPnwmfP3++HC5cuGmBAgWqDgDx4sV7/u/fv+dIDwAQLFiw4f/+/Zu8f//+Dnny5CkdJEiQbsgOAABBggQRJEgQ//79u/znz58xhw4dWlygQIHfAO/evQsfPnz4ev/+/ascKFCg3AAAAEGCBBEkSBD//v07/efPnykBAQHz4ffv3+UDBw68KFCgQKEBXnz4rtL4I1oVTaJGjrgAAgICNgUEBPj379/5379/twkaNOjh379/7wgICGiFQBAsWDB58uQBAAD//v27FzZs2Oi4DQAAAAAAQYIEmQehQoX6/e/fv+n79+/vUKBAgd8AAJ8/f44eKlSoRSgMAPnz57/969evBkGDBj0MAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADw/MN3sSOEAADw49cfLZee1b9MSo1yJwA1Zh0HkCtxZP03XXX75WdxI4b0X9Ag8iWNYs7he55//C5v0iggbIigwvwXoGPRJGKECwEAAAAAAGDMzpsqZowlX9IoAAAAAAAAZhy44/fffwaUTSVokMD2XHth08VnAAAAAKBMupjuv/6i+9pLggYJrEy6GLInjAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAfvz4kTxo0KCzAgUKlBsAAAAAEDxQoECVAwICKocLF+5joECBwgIABAoUKDqiAwAAoHX+/PmrIioAAAAAIHWQIEHm5c+fv93Pnz8bBAsW7Py/f/86YTCCBwoUCAAAAAAgc5AgQeb9+/evGRZhAgIAbjz7pPqkY24+/2T/1Zdq5IgLAADpAwIC9v3792826iMQAAAAAAQKFCjFf//9d+nfv3+DAQAAAAAAAAFonS9fvuioAgDv3r0LHzJkyH1IDgCAxAEBAft+/fpVIGjQoIcBAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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bUECQwADyJIvs5vNPUsQMo0ia6LImjChWxBCihQvuweuvzt1/Z/a+u+6++gIO33xt9v57mhdKBIZWS6tytjhgzNYbdl9+AQqnjqZTyWQAAgIHkjVRRAAXH77Xccl5AAmjhjK0ahol0sUQECSw33/+2nf1pT6rL7v06APotvyitHHDy5s8CgAAAAAIkry836emgD831vuXp5dA/4UFgQMHbvznz5/vgQIFSg7w58EB/z48ABCQqhoA+Pv373kAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAASBMrnDQV0gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAwIEDNwOADovPe/nxB4C+FVLqViYFAIBUscOpkzu+K48/uPjwgzIZYwIAgD9//4GupZPrVS6FgCCBAQBcePjekqMPAIyonlbrokkAQOQw/+lVPqUCKaMqPvKgP3//ufTog2XHHqqTOz6AifUymlgvIwAAiBc5lLzJo2iUP6HiIw449+A9mLLrluaFEoHQwQPkTR4FLDnyAED0cMHlTR4FAABAzxWX/Pn7D6SJE87uHvmFDh4AICBIYEXSRJcneRTVJh6z+8oL0HXZBccHFAYAAAAAAWlq+X16Ov/+8Oen39fXCZquHkCgwIEDtwGA3xcWAggUMakgMbMAwOVgwYKdBwAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgJcvX4YOFChQYYAbzz7ZcOYJgK6lk+tWJgUAAABIFTucVLHDAQAAgIGVUulUKjkAAIDFhx8AyJMsstZFkwAAAMiZNLJupZMbuvEamLP/njq54wMAAAAAgNDBA/SrmEr5cUfA3ZdfvPjwXbRwwQEAAAAAAMCdF5/tu/YSwIxGmYUOHgAAAIIHDWJm48xSdNnmx++/Lj364OjN13ImjQwAAAAgcOgYgiQo6M/dXeD3paWCpqsHAAD+fn7mz4MDAALS1gUAf/78mQIAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQIUKE7AgAWHf6MYBIoYPpViY5AAAAAAAAAICYEULoVCo5AAAA2H7xGYBG+RMCAAAAqJ07nqEbr4FTd996//Wn8CGDAQAAAACALIkiAoAbzz6JFi44AAAAAAAA2Hf1JYAsCSNKFzc8AAAAiBYuuDIZY1p98jHYduGZnEkjAwAAAICANLX8ubsL/Ht7059n5wSJkQEAwO8LC/n3BwgWRkDy8gDw/u3bt4sBAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgUKlBwATt15C6B4uhiCBw0CAAAAAAAAACAgcCAAAADw+ftvd19+AfD91x8Hr78CAAAAEOq/IL78+AOuPvkoZ5LIAADef/3p4sMPHr7+CgAAAAAAAAAAAAAALj56DyBcyKAOXn8FAAAA4L+gQQDcfP4JAAAAAECQePkEChPLv09PwO/LSwSJkQEA/Pv7259rqwEEJC8vULBQALA4atSonwEAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCBAkSCQCevPsGIGWssAAAAAAAAAAAAAAAAODN5x8AoPncMwAAAAAAAH7/+QcADl5/ZczWG/ZdfenP338AAAAAAAAAAAAAAABefPgOYPflF3ZffgEAAAAAAD58/QUAAAAAAALS1fXr8DDw5+Ym//L2Fei/sAD+3N7m39fXAALS1gMAP3/+nAIAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsOvKC3uvv/TvH2+//NSjRHJFU0UD8OnHbwAAABvOP3H/zVcrmmUHh2+9BgAAMOfwPb1KpRA3Ykhrzz4xbtdNixtnA73XX5YqZjg9SiQHgzZftevqC0VSRjN5722Jo4Y2qHxqP3//de7hOzB5722Jo4Y2qHxqP3//de7hOwAAAFsvPVcoRVSRQv8HciWObOul5ypkiAXgytOP8iaNYnSVdL7//qPTygs2XXiqTLqYtl1+LlXMcNoXTurT91/aLT8vXqSQ8iSJAgDKpI1h66VnSqWNAWDb5edGVErrwZsvZh+6a3nT7MKGCOrykw8ihgqmd6kU5hy+583nn7oWTwYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIFCjQb/SF40CDG1kqv9rQT4O7LL3IP3GtgpdSqZIstIEhgALD3yksTdtx09t47MxplVjJ9DAAAAAAAAFA/bwJjtt709N030GvlJU/eftO5VDLRwgUHAHD05msz9t5x4eF7I2ukUzRNdBA3UkgP33wFQ9ZflSdZFKGDBwCACw/f67rsgsM3XgMAAAAAgDsvPgMAAAgeNIh2xZMYuO4quPTog9wD9xhbK4OCqaICAHj96Yflxx5afOSBjPEjmFg3g4AggQEAAAAAAAQkL+/XkaH8+sqfn36dmAAgSKKiAoWKAuDfv3+rQ4cO/RwAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAiqSKpl2hJODT918WH3+o48oLJtXIAAAAAODfP37++ev2y88SRw0td5LIAAAAiqWKLm7EkKBYqmjG7rrp64/fXnz64cqTj0ZUSgugROroNl14pkjKaOD9t1/efP4hUuj/ZEsYCcD7b7+8+fxDpND/yZYwEgAAgK2XnmmZPxGA0mljmHP4ngoZYgEIGzxArWxxQbCAwNLGCuf+6y+gdNoYAMIEDypFjLDuvf4qTxIAoHS6GKbsu+PG80+SRQ/j8K3XYoUPIXHU0B68+eLH77+uP/8ka4KIUscKBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADgy5cvM0KGDNk5UKBAoaFCltha3npj6u7b4Om7bxrPPqXTkvPSxA0nfuRQXn/64ez9d15+/AFgzoG7SqaPAQAAAAAAAIIHDWJK/YwqTzjqz99/YOru22bsvSNtnHDiRQ4ldPAAD15/ceXxR2+//AQwZddtRdNEB5WzxjZ2201w7sF7abpvVyJdDLEihvD5+2+n7rx17PYbAAAAAABJoocGcOz2G+XGHpY1UUQfvv5y5fEHaeOGN6xaWtCpZDI7L71w/PYbcOv5Z2XGHBI17H/Sxg0verjgXn/64cHrr649/Qjg0qMPupVJLl7kUAAAAAAAAAIFCyUgRSW/Ly4C/v0BEJC2LgD48+fPFAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgTPKjm+RLKO3K/G88/SRY9DAAAACifIZbvv/8ateOG77/+KJc+looZYwEAAAAIFhAY/P73z4M3X4QJHqDLqosAAKBzsWQWHL2v1dJzoocNrlqWOHIkiqRzsWQWHL2v1dJzoocNrlqWOHIkigQA4MKj926//Kz/pqsA4P3XXy4/+SB1rHAAACAgSGDff/0BsPbsYwdvvfb5+29BgwQWLWxwAAABgQMrnS6GLZeeSRY9jG2XnyudNgaIFymUvmVSWn3msaFbrymWKroW+RMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgNChQz//9+9ff4wGGFUznejh/jNg3VV//v4DH779cvjGa4dvvAYAEOq/IBrlSwgAAAAAAAAAiqaJbknL7JrNOe3Dt1/gz99/zj1479yD9wAAINR/QTTKnxBAtzIpbLv43LUnH8HLjz8sOHQfAECo/4KYUCejxrNPAQAAgDq54xu79aYP336B3Zdf2H35BYD9117pVDKZyGH+ExAksA0dc6s26aj9114BePnxh92XXwAAACieNrpYEUIAAAAAAAAACEhTy++LiwBAoIhJBYmdHQAuBw0a9DAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAoECB/ENAkEAgEH7+/gsAAKB6ljiqZ4nj5otPmi48I3vCiGKGDwEAAAAAIHaEkH79+WdUlbQAACD0fwFaFUisVYHEdl97YczOm1a3yCH0fwFaFUisVYHEdl97YczOm1a3yAEAYOulZxrlTqBezvgAYM7he7ZeeiZ1rHAAAAAA2q84r2DyqMZXSw9G7bgBAACgTNoYmi46o26OeC48fm9IhdQA8iWNIl/SKD5++6Xvhiu2XHymVNoYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACBQoEBj/v37lx+lATqVSq50xpjGbL1p/enHvvz4AwAgUuhgqmWPq3OpZKKFCw4gR5JIQv0XxJcffxRJHQ0AAAAAQJmMMWVNVNTwTdetOfnIm88/AQBA1LD/qZ4jrvbFk4oWLjiA0MED7O9VQNdlFyw+8sCfv/8AQKj/gqicNY5uZZKLFzmU5cce2n3lhZgRQsgYPwIAgGjhglvfMZdGM0+5++oLAAgSOJD6eeKLHOY/AKGDB9jSJa9Fh++bseeOcw/eAwCAIIEDKZAyqsb5EyiTMRYAgMCxs/tzbQ3BwggSNxcAAAAIHCmZwDEy+/vsNICANDUBwJ8/f6YAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ICT Organisational Structure

The above ICT organizational structure is based on assumption, this research was done by finding staff members profile through department names on LinkedIn. The structure above shows both the Digital workplace manager and IT infrastructure manager’s report to the CEO of the organization and the managers have people reporting to them, then there are each department and under each department there are people working.

* 1. Summary

Foodstuffs has lots of different types of software’s that help them to run their day to day activities smoothly. This is helpful for both the customers and the staff members. Foodstuffs is continually adding new ways to improve the service they provide to their customers as they want to give their customers the best shopping experiences and the best quality products.

# Strategic Plan Analysis

* 1. Introduction

*“Sound strategy starts with having the right goal”.*

*Michael Porter*

In terms of a harsh competitive environment and rapidly evolving situation, commercial organizations should properly concentrate not solely on the internal state of affairs but also to produce long-term strategies which allow being in harmony with constant surrounding changes.

Many organizations could successfully work in the past paying attention only to everyday routine and inside problems related to increasing effectiveness of resource usage in current activities. Although the task of rational resources usage in current company activities is not canceling in nowadays, it has become a prominent model to manage in the way of timely manner adaptation to fast-changing circumstances in the business sphere.

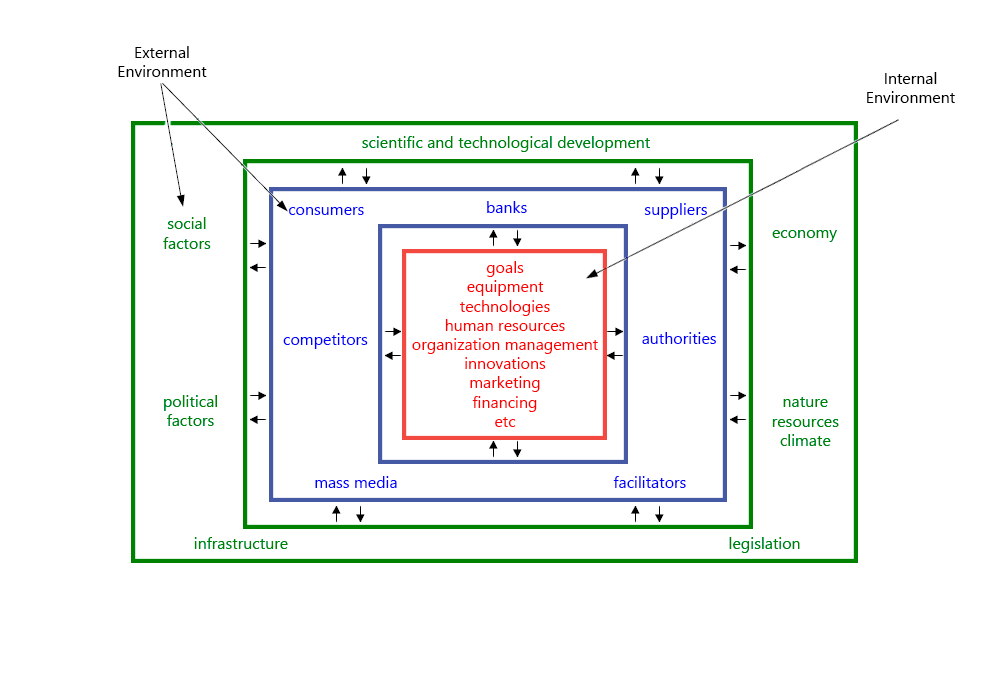
In other words, it is vital to pay attention not only to internal factors but also to external ones.

Life pace acceleration, customers recent demands, competition tightening, new unexpected business fields emerging following the current scientific achievements, swift ICT development, and, as a consequence, rapid information delivery, change of the role of human resources, and other various reasons have made the strategic management extremely important.

The word “strategy” has a Greek origin. Literally, it means the art of deploying troops in a battlefield or, in other words, skills of a supreme commander. This military expression is widely employed in theoretical and practical spheres of a management today. In management strategy is considered as a long-term direction of a company’s development. It is a set of rules and techniques providing a basis for decision making to implement goals achieving.

“Strategy is the bridge between policy and high-order goals on one hand and tactics or concrete actions on the other... In short, the strategy is a term that refers to a complex web of thoughts, ideas, insights, experiences, goals, expertise, memories, perceptions, and expectations that provides general guidance for specific actions in pursuit of particular ends” (Hiriyappa, 2013, p.7)

However, a single common strategy for all companies does not exist, as a single universal strategic management does not exist either. Every company is unique in some way and that is why the process of building a strategy is unique for every company. It depends on the place on a market, development process, potential, competitors behavior, production characteristics, state of the economy, political situation and many other factors. So, that is why it is so significant to conduct a comprehensive analysis of internal and external influencing factors in various ways to produce a strategy for a particular enterprise.



“Strategy has to be based on information about markets, customers, and noncustomers; about technology in one’s own industry and others; about worldwide finance, and about the changing world economy.” (Drucker, 2007, p.106)

As a part of the company’s ICT management team, the aim of this work is to concentrate on an ICT sector. Various analysis techniques will be used. Such as SWOT analysis, PEST analysis, Balance Scorecard, Gartner Quadrant, and Enterprise Architecture.

* 1. ICT SWOT Analysis

SWOT analysis (or SWOT matrix) is one of the strategic planning analysis techniques which includes two main categories – Internal & external factors.

Internal – **Strengths** and **Weaknesses** internal to the organisation

External – **Opportunities** and **Threats** external to the organisation

Generally, we use the diagram as below to present these factors.

**Strengths**:

* IT Technical & Business Knowledge combination
* Full access to manage ICT
* Data Integration
* ICT Vender Management

**Weaknesses**:

* Inadequate business knowledge
* Lack of customer facing experience
* Complicated processes
* Capacity and resource restriction

**Opportunities**:

* Improve customer satisfaction
* Data Analyze to optimize business
* Implement cutting edge technology
* Cooperate with vender to deliver better solution

**Threats**:

* Competition from external IT companies
* Security challenges
* Rapid technology renew speed
  + 1. Strengths Analysis – Internal
* Staff from IT department understand both IT technical knowledge and company retail business. They can transfer business requirement into IT solution or design document, then get back to business department for further review and discussion.
* As the only department in company who has full access to all the systems, IT department can extract data from multiple functions, build integration structure, and provide data analyse to support business improvement.
* Via building data integration, reducing cost and keeping data accuracy. For example, keep item master data aligned between ERP, supply chain and sales systems, build data warehouse with multiple dimensions for data analytics.
* Manage 3rd party ICT venders. Review their solutions, estimate and quality to find best partner to work with. Outsource daily services like IT service desk to help company maintain cost and improve flexibility.
  + 1. Weaknesses Analysis – Internal
* Inadequate business knowledge. ICT department understands high level business, but doesn’t have deep knowledge of business departments’ business and requirement.
* Normally, ICT department is a service unit of other departments, it doesn’t have much experience on end customer communication, which can cause an issue that ICT department doesn’t share the same pressure as business departments. Potentially it can cause misunderstanding and delay.
* As a large company, normally ICT has complicated and long process. Once a project or requirement raised by business departments, ICT department will trigger a process, needing to follow certain forms or templates, getting multiple level approval, estimate the impact and security policies etc. Sometimes business units choose not to request ICT because of the complexity.
* Since an internal department, ICT doesn’t have enough resource to involve all the IT related tasks. Also lack of resource who can work on certain technical software / tools. In this scenario, ICT department needs to either recruit right resource or find external venders to do the tasks.
  + 1. Opportunities – External
* IT could design new applications to improve customer satisfaction. E.g. application for online shopping, mobile app, deliver omni-channel shopping experience. Also IT can participate in company’s optimization projects, use its advantages to analyse trend, revenue, costs and propose for improvements.
* By accessing data of multiple systems, ERP, loyal card records, checkout records and supply chain system etc. IT department analyses data, using data warehouse, BI to show the trends, which helps company to improve daily business.
* Implementing latest cutting edge technology, which can improve efficiency, reduce cost and improve competitiveness. For example, by applying cloud solution, company can reduce cost of maintaining IT infrastructure and security.
* There are many ways IT can choose to optimize business and reduce cost. As an ICT department in Foodstuffs, it cannot perform every direction due to resource and technical restrictions. This is where the 3rd part vender step in. Selecting, evaluating venders, and cooperating with them to deliver solution is a good approach for ICT department to achieve their goals.
  + 1. Threats – External
* As a retail company, ICT department provides IT service and security management. However, business departments still can contract with 3rd party vender to deliver IT solutions. This is a challenge for IT department that sometimes have to compete with external vendors, or at least guide and manager them to meet company’s policies.
* Along with the technology development, IT security is a critical part for ICT department. How to make sure no data leaked to external, protect data stored on servers, laptops and tablets safe is a challenge.
* Normally ICT department has limited resources, their advantage is familiar with company business but not catching up latest technologies. However, in order to keep company on track and compete with competitors, learning latest technology is important. This is a task for ICT department.
  1. ICT PEST Analysis

“PEST Analysis… considers external factors. PEST is an acronym for Political, Economic, Social, and Technological issues that may affect a business... PEST Analysis measures a market”. (Applegate, Johnsen, 2007, p.28)

Sorting out all factors into the four main groups and stressing them as the most important related to:

* The politic reflects auctions of authorities which are shaping in a significant way an organization’s environment.
* The economy determines available resources distribution within a state.
* The social sphere in this analysis researches consumers behavior and reasons for its differences.
* The technology affects on arising market changings.

PEST analysis framework represents a table divided into columns. All that issues are brought each into its own column so as possible actions of a company directed to avoidance or mitigation of negative influence.

It can happen the name of the analysis will have different variations (STEP, PEST). The reason for that is that for one enterprise prominent could be a social sphere and political for another.

**Factor Groups**

Political could include:

* legislation acts changes
* elections of different levels
* ecological problems
* international influences, etc

Economic issues could include:

* inflation rate
* interest rate
* climate influence
* taxation policy
* standard of living, employment rate
* currencies exchange rate, etc

Social factors could include:

* demographic
* ways of life
* education level
* mass media
* popular trends, etc

Technological could include:

* scientific and technological progress and discovers.
* available technologies, Level of availability
* legislation in sphere
* science funding, etc

**Issues and Limitations of PEST analysis**

Before starting to analyze factors which are influencing the company’s actions, it will be a good idea to establish those in every group because the set is not a universal one. It will be a good idea to pick it up individually for each company. This is the main problem of the PEST analysis – it is not a universal tool for every company. And if to apply only some factors from every group without proper consideration, the conclusion could be misleading, and the whole analysis is a waste of time.

The factors in the PEST analysis cannot consider everything that influences exact enterprise activities and decisions.

If the company is producing different kinds of products or working in different markets it is good practice to perform the analysis for every single product or marketplace.

|  |  |  |  |
| --- | --- | --- | --- |
| PEST Analysis - *Foodstuffs* | | | |
| P | E | S | T |
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|
| Political | Economic | Social | Technological |
| Protectionist measures from government can influence on ICT equipment prices  Legislative initiatives can significantly increase software development spendings.  Legislative initiatives in personal data processing can create additional spendings in software and hardware(protection, storing, processing of personal data) | Interest rate change can significantly influence IT infrastructure budgets (both positive and negative)  National currency value increase will enable to buy more innovative ICT infrastructure overseas  National currency value increase will enable to hire overseas coders cheaper  Competitors new features implementing will require additional spendings in order to avoid falling behind and the customers lose | Changing patterns in social behavior. People change the way of grocery and household chemicals shopping: automatic orders from appliances.  Demographic changes can severely influence the ICT labor market  (both positive and negative) | Changing the ways of delivery: drones automatic deliveries  Artificial Intelligence can replace cashiers, consultants. Also, can impact on various business operations  Internet of Everything can give new crucial data(customers behavior, habits, prefrences) for more personalized approach |
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* 1. ICT Balanced Scorecard
     1. Introduction

As one of New Zealand’s largest food supplier companies, Foodstuffs runs a huge and complete ICT department. Therefore, they have invested a lot of money into their technology improvement and staff professional training to achieve annually revenue and net profit. In order to evaluate their ICT performance and manage how does their strategic action plan go, we use Balanced Scorecard (BSC) which is often used in the company’s business performance assessment to analyze and determine the long-term strategy and analysis.

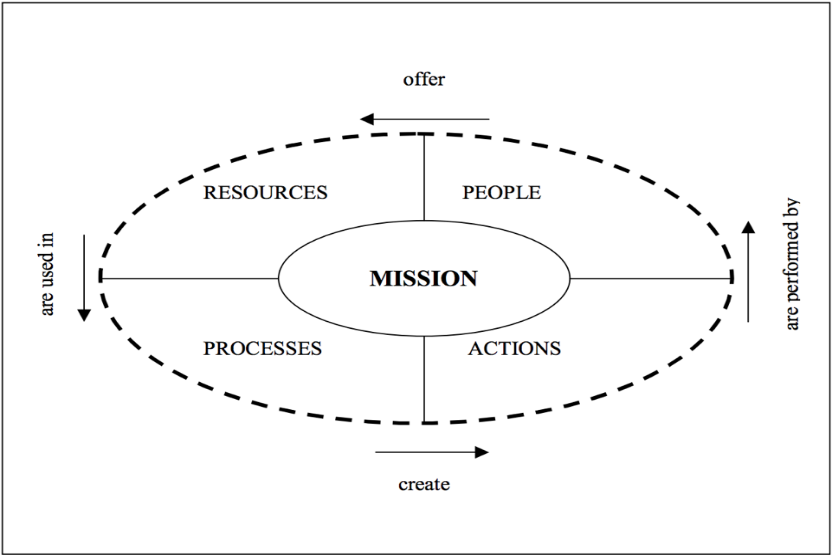


Fig.1 Process of BSC analysis

In Fig.1 we can clear figure out how a company runs the strategic plan under a standard progress. In the center of this diagram is the company’s mission or goal which is the primacy of BSC analysis. To achieve the goals, there is a relationship between people, action, processed and resources. People offer the financial resources, resources are used into processes, processes create actions and actions are performed by people. Depends on the relationships, the ICT Balanced Scorecard’s relational loop is defined like Fig.1. Each part has its own perspective, they are financial, Customer, Learning&Growth and internal processes perspectives.

* + 1. ICT Balanced Scorecard Analysis

图片包含 屏幕截图

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Fig.2 Goals and objectives of each perspective

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Fig.3 KPIs and Targets

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Fig.4 Targets and programs

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Fig5. Description

In this section, we are going to present the strategic action plan along with ICT Balanced Scorecard we have made for Foodstuffs based on the four perspectives.

The pictures above are the ICT Balanced Scorecard for Foodstuffs.

* Financial perspective

For the financial perspectives, there are two goals and several objectives in each goal. The first goal is to increase net profit. Under this goal, there are three objectives to achieve it.

1. Increasing revenue by using world-leading techniques(KPI—Number of gross profit)

For a company who want to keep competitive in the modern market, the capability of ICT is a crucial factor. Thus, the company should keep their technologies up-to-date, than, the revenue would grow every year since the production efficiency. We made a three-year target depend on Foodsutffs’ annual report. The first year, because of the investment, the gross profit might less than 2018, but must keep it in a positive number, the second year they need try to maintain the same gross profit as 2018($475,796）, as for the third year, they have ability to earn money more efficient, so the mission of the third year is to achieve 4% growth than the second year(when they invested money into some small changes in 2017, they went through a 2% decrease).

1. Increasing store sales (KPI—Store sales’ increasing percentage)

In this part, we plan to use Customer Analysis system to achieve the goal. In the modern society, customers have variety of needs, so the company should access the database of shopping records and analyze the data about the hobbits of each customer then produce the goods and send promotion information to each customer base on their needs.

The second goal is to win new market. Exploring new market is the eternal way to help a company standing firm in the competition. As the recent customer shopping tendency analysis. People in New Zealand are more willing to buy foods which are beneficial to their health. So our objective for this goal is to produce heathier foods to win new market (KPI—sales from healthy food). By using customer data analytics techniques to predict the trend of market to develop new market one step ahead competitors. To evaluate the performance of the data analytics technology, we have to check the sales come from healthy food and compare them with other companies.

* Customer perspective

In this perspective, we focus on making customers feel worthy for what they have bought.

There are four objectives within this goal. Analysing shopping data to meet customers’ need (KPI—Customers’ satisfaction), improving Customer relation(KPI—ration of customer inflows and outflows) and Provide more information about products which customers are interested in(KPI—Customers’ feedback on the information). These three objectives are all using customer analytics to achieve the goal. Nowadays, understanding what do customers need is the first priority that a company should consider if they want to improve rate of returns. So we decide applying the shopper tracker system to understand the relationships between items which customers buy together. Therefore, shelf managers can rearrange the products in a more reasonable way to make the shopping process more comfortable and humanize. To find out customers’ satisfaction, we planned to ask customers to fill the online questionnaire. After getting the feedback, we can calculate the ration of customer inflows and outflows. Furthermore, we can use customer analytics technologies to gather information about what the customers want to know about our products and print them on the label (such as the story of the origin of the product). Then we can make a survey once a month to get more information from our customers to provide more attractive information to improve our customer inflow. The last objective in customer perspective is about the I Shop online shopping APP (Extending the number of I Shop App, KPI—Number of I Shop users). The limit of covering range is a tricky problem which prevent the company from attract more potential customers. Thence, the company should solve this problem instantly. Adopting new transportation management system can be an ideal way, this may provide real-time data communication between drivers and support center. To monitor how effective the system is, we will count the quantity of users. Target for the first year is to get 50,000 users, the second year we want have 60,000 users and the third year the number should expend to more than 80,000.

* Learning & Growth perspective

For this part, our goal is cultivating employees’ professional knowledge and update techniques. First of all, our objective is to improve our people’s skills by operating online course about the contract and lectures about each position (KPI—Online test average score). To evaluate the level, online test will be launched monthly, and the average score would be the main indicator of staffs’ learning outcome. The following one is improving communication between two warehouses (KPI—Products distribution efficiency). Because we have two warehouses to store products, to achieve a more efficient good supply, we need to update the warehouse management system which can help two separate centers work like one team. The third objective is to achieve high punctuality of product supplying (KPI—Time of arrival). By applying new transportation management system, we can monitor how is the supply-chain strategy going. The time margin is one hour for the first year, the second would be 45 minutes, then 30 minutes.

* Internal Processes

Moving on the correct direction is the first goal and the objective of it is making decision more efficient and effective (KPI—Ratio of effective decisions and useless decisions). To make sure we are moving toward the right direction, we need to make sure our decisions are effective. Therefore, we apply SAP software into stores to help us make decisions more efficient and correct.

The second goal is improving performance. We plan through giving specific feedback to help staffs and manger understanding their team’s performance. After that they can run a weekly or monthly meeting to speak out their opinions. For this objective, we conduct the new 360˚ feedback tool to help us checking the performance.

* 1. Gartner Quadrant Analysis

Gartner Magical Quadrant (MQ) is market research report and visualization by IT consulting firm Garner. This tool is for monitoring and evaluating the progress and position of companies in technology-based market. This would help the company understanding market trends and compare their position with the other competitors. By showing ranking companies in quadrants, which are based on two factors, completeness of vision and ability to execute it. The Gartner Magical Quadrant separates in four categories.

**Niche Players**: Scoring low in both completeness of vision and ability to execute, these companies may narrowly focus on specific market but cannot outperform larger vendors. Usually focused on specific region or are local business.

**Visionaries**: Have aware ness of how the market will evolve and understand market trend but not be able to execute their visions. Normally in the start-up business try to escape from the mature markets.

**Challengers**: Be able to execute or well enough to be a threat to vendors in Leaders quadrant. They may have strong product in mature markets and well known in the market but lack of strong vision or they don’t want to change their current plan however if their got their vision, they would have potential to become leaders.

**Leaders**: The vendors in the Leader quadrant have the high scores in both of completeness of vision and ability to execute. A vendor in the leader quadrant has market share, understand the market trend and capability to create an invention which could affect the market’s overall direction.

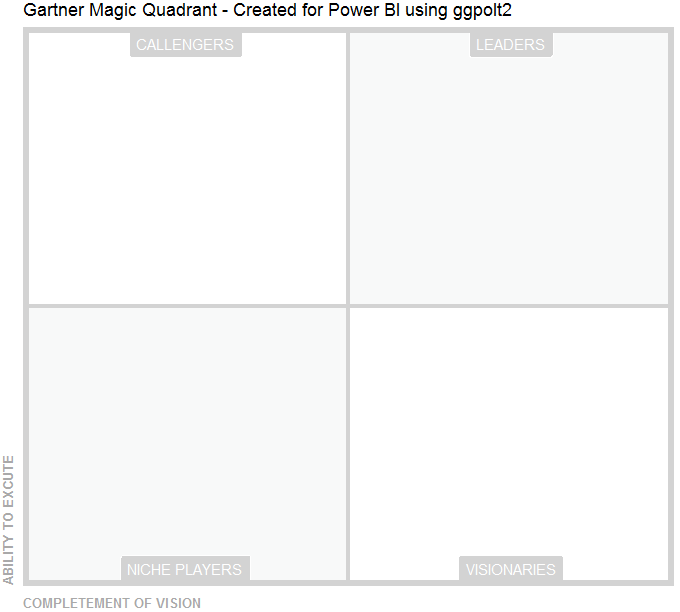
* **Scope of this analysis**

In this analysis, we focus on two major suppliers’ supermarkets only in New Zealand which are Foodstuffs and Woolworths (New Zealand). In this topic we want to analysis is Analytics and Business Intelligence Platforms base on Gartner Information. Two large companies are using a different platform to analysis their business. Woolworths is using IBM to operate its system (1) and Foodstuffs is running the operating system on SAP. AS you can see in this figure 1 SAP operation is in the Visionaries quadrant, but IBM is in Niche player, one of the reasons is, SAP operation system is allowed to accumulate and transform large amounts of data to have an integral and more complete vision of the Company. It also allowed revealing hidden trends and finding answers in order to help make decisions based on objective data and transmit their results. An efficient tool that allows the fast manipulation of data with attractive visualizations that make it possible to combine and analyze data from different sources. (2) If compare with IBM It lacks though better-integrated visualization tools and native integration with other IBM products. (3). According to Figure 1. This would help Foodstuffs understanding their business position and future Market trend to analysis their data which may drive their business into the Leader position for example by using Tableau to improve their data visualization and even new users can use it. (4)

A screenshot of a cell phone

Description automatically generated

Gartner Magical Quadrant for Analytics and Business Intelligence Platforms base on Gartner Data



Foodstuffs (SAP)

Woolworths (IBM)

Gartner Magical Quadrant - FoodStuffs

* 1. Enterprise Architecture – Zachman

The Zachman above shows all the functions, operation and structure of Foodstuffs. There are six viewpoints of six different person of how they do their job, the planner, who outlines all the important things to Foodstuffs, all of Foodstuffs functions, places where Foodstuffs is located at, Foodstuffs stakeholders and the goals that Foodstuffs want to achieve, the owner’s job is to organize all the information in a meaningful way and determine the relationship between the information, the process of the business, outlining the relationships between the two regional Foodstuffs, a working schedule to outline the tasks and the people the task are assigned to, achieving the goals and strategy. The designer’s job is to understand the what type of software is required for Foodstuffs, the builder’s job is to design the software’s, the programmer’s job is to code the software for Foodstuffs and finally the user’s job is to use the completed software for Foodstuffs.

* 1. Summary

Different analysis methods analyse ICT department from different angle. SWOT analysis is focusing on ICT department’s advantages and cons, opportunities and challenges based on its feature. PEST analysis works on the impact from external environment (political, economic, social and techno logical features). Balanced scorecard is driven by ICT strategies, targets and actions, it analyses form strategy and management perspective. Gartner Quadrant analysis classifies companies into 4 quadrants: leaders, challengers, niche players and visionaries. It is focusing on the competitive strength of the company in the whole business environment. It helped company to release its position in the market, rise market share and improve the influence.

# ICT Strategy – *Foodstuffs*

Refer to ***ICT Strategic Plan 2018-2023 for Foodstuffs***

# ICT Infrastructure

* 1. Introduction

ICT infrastructure of a company is about the hardware, software, networks, firmware etc. of the company, they are the information and communication technologies that help the business in dealing with the day-to-day activities. Fujitsu, an IT company got the contract to supply Foodstuffs with IT equipment’s to Foodstuffs brands such as touchscreens for self-service. Foodstuffs wants to make use of technology in ways it can help them keep their operation at a rate in which it reduces the impact on environment.

To have a strong ICT Infrastructure, Foodstuffs organizational structure should be including highly-skilled and well-organized people who would go to any extend to complete their work. The identified organizational structure listed below is a good and strong support to implement the ICT strategies for Foodstuffs.

* 1. Proposed ICT Organisational Structure

# Description of Individual Roles in the Team

|  |  |  |
| --- | --- | --- |
| **TeamF** | **Role** | **Description** |
| Sergei | Member | Hardware, Strategic Plan Analysis Introduction and PEST Analysis |
| Qixiang | Member | Execute Summary and BSC Analysis |
| Tanapol | Member | Gartner Analysis |
| Melvina | Member | Software, Company overall introduction,ICT infrastructure introduction and EA(Zachman) Analysis |
| Yun | Leader | Focus on SWOT Analysis and other left parts |

***More details refer to our schedule.***

**ICT Strategic Plan 2018-2023 for Foodstuffs**

* **Introduction**

ICT strategy (information technology strategy) is a comprehensive plan that outlines how technology should be used to meet ICT and business goals. An ICT strategy, also called a technology strategy or ICT technology strategic plan, is a written document that details the multiple factors that affect the organization's investment in and use of technology. *(Margaret Rouse, n, d)* Foodstuffs mission, goals, objectives, vision will play a big role in outline the ICT strategy for the company.

* ICT Vision Statement ( 1 statement)
* ICT Mission Statement (1-2 statements)
* ICT Overall Strategic Goals (1-2 goals)
* ICT Strategic Objectives (3-5 objectives)
* Background and Rationale ( ½ to 1 page description)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Strategic Plan 2018-2023 | | | | | |
| Strategic Objective 1: copy strategic objective 1 from above | | | | | |
| Specific Goals | Action Plan  (What, How) | Key Performance Indicators (KPIs) | Person(s) Responsible (Who) | Budget  (Resource Allocation) | Timeframe  (When) |
| *(Set one or more goals related to Strategic Objective 1)* | *(Set one or more actions that you will do to achieve strategic objective 1 goals)* | *(Write the targets – how do you know/measure whether you have achieved a goal fully or partially)* |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Strategic Objective 2: copy strategic objective 2 from above | | | | | |
| Specific Goals | Action Plan  (What, How) | Key Performance Indicators (KPIs) | Person(s) Responsible (Who) | Budget  (Resource Allocation) | Timeframe  (When) |
| *(Set one or more goals related to Strategic Objective 2)* | *(Set one or more actions that you will do to achieve strategic objective 2 goals )* | *(Write the targets – how do you know/measure whether you have achieved a goal fully or partially)* |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Strategic Objective 3: copy strategic objective 3 from above | | | | | |
| Specific Goals | Action Plan  (What, How) | Key Performance Indicators (KPIs) | Person(s) Responsible (Who) | Budget  (Resource Allocation) | Timeframe  (When) |
| *(Set one or more goals related to Strategic Objective 3)* | *(Set one or more actions that you will do to achieve strategic objective 3 goals)* | *(Write the targets – how do you know/measure whether you have achieved a goal fully or partially)* |  |  |  |
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**Policy Development Template Guideline for Part B**

* **Policy Header** – Title, an effective date, a revision date,
* **Background**, Brief description of any reasons, history, and intent that led to the creation of the policy, which may be listed as **motivating factors**.
* **Definitions**, providing clear and unambiguous definitions for terms and concepts found in the policy document.
* A **purpose statement** - Outlining the policy goal, desired effect or outcome.
* An **applicability and scope** **statement -** This is used to focus the policy on only the desired targets, and avoid unintended consequences.
* **Overall responsibility** - Responsible for overseeing the policy.
* **Policy statements** - write the specific regulations or requirements.
* **Policy Implementation guidelines –** Outline how each policy statement will be enforced.

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