BC:

is given. The exact solutioncan be calculated from the

X=0, y=0

X=1, y=0

X=1, y=1

X=0, y=1

Solving method: iteration method(e.g. Jacobi’s method) with the initial condition all over the domain

An then

.

Solving this by MPI.

e.g. We have 12 cores cpu and, we want to solve the problem in a 37\*37 domain, the stencil length is equal to 1/36. Global\_len=36. Dx=dy=1/36.

A picture containing shoji, crossword puzzle, building, indoor

Description automatically generated

(2,1)

(2,2)

(1,1)

(1,2)

(1,3)

(2,3)

(0,3)

(0,2)

(0,1)

(2,0)

(1,0)

(0,0)

12 cores are listed into a 3\*4 cartision using MPI\_Cart\_Create, The coord of the 2D Cores can be found in the figure. Block\_len\_x=3. Block\_len\_y=4.

We can calculate easy math problem. We have 12 stencils for each core on x direction. We have 9 stencils for each core on y direction. Local\_len\_x=Global\_len/Block\_len\_x.

Local\_len\_y=Global\_len/Block\_len\_y.

The Local\_start\_x=coord\_x\*Local\_len\_x=0, 12, 24

Local\_end\_x=coord\_x\*Local\_len\_x+Local\_len\_x-1=11,23,35

The Local\_start\_y=coord\_y\*Local\_len\_y=0, 9, 18,27

Local\_end\_x=coord\_x\*Local\_len\_x+Local\_len\_x-1=8,17,26,35

Shape, square

Description automatically generated

1,0

0,0

We have to set a ghost region for every core to store the neighbor information in order to deal with the boundary condition at the four edge of every core region.

Before we start the iteration, we send the neighbor value to the ghost region.

e.g. (0,0) core, and (1,0) core.

The right edge of(0,0) core is right ghost region initialized by value 0. The left edge of (1,0) core is left ghost region. We first send the information of local\_coord(11,0:8) to the (1,0) core left ghost region, and let left ghost region receive the information sent by (0,0) core. Then, do the same thing to the right ghost region of (0,0).

We also have to update the ghost region information for up ghost regions and bottom ghost regions for different cores. After that, we start the iteration.

The pseodal code for the iteration can be expressed as below:

For(it=0;it<maxtime;it++){

(1) Send and receive the information for ghost nodes;

(2) Update the U by former equations;

}

When we complete the iteration, we could evaluate the method by comparing the results with the exact solution.

How to construct the ghost regions for different core regions.

e.g. the (0,0) core and the (1,0) core. On the x direction, the local coords should be local\_start\_x=0:11 for(0,0), local start\_x=12:23 for(1,0). Then we first update the information at the normal region( which is contrary to the ghost region). The correct data is updated on core(0,0) and core(1,0). Then we update the data on ghost region. For core (0,0), the ghost region coords for left and right are local\_start\_x=-1:0, local\_start\_y=0:8, and local\_start\_x=11:12, local\_start\_y=0:8, for core(1,0) are local\_start\_x=11:12,local\_start\_y=0:8, and local\_start\_x=23:24,local\_start\_y=0:8. We notice that there are two local\_start\_x=11:12 on two cores, however this will not conflict. It is because two core have their own information and cannot know the information outside.

Several function in MPI\_cartision:

MPI\_Cart\_shift, you will get the local rank’s neighbor’s rank number. You need to provide the direction, and the displacement.

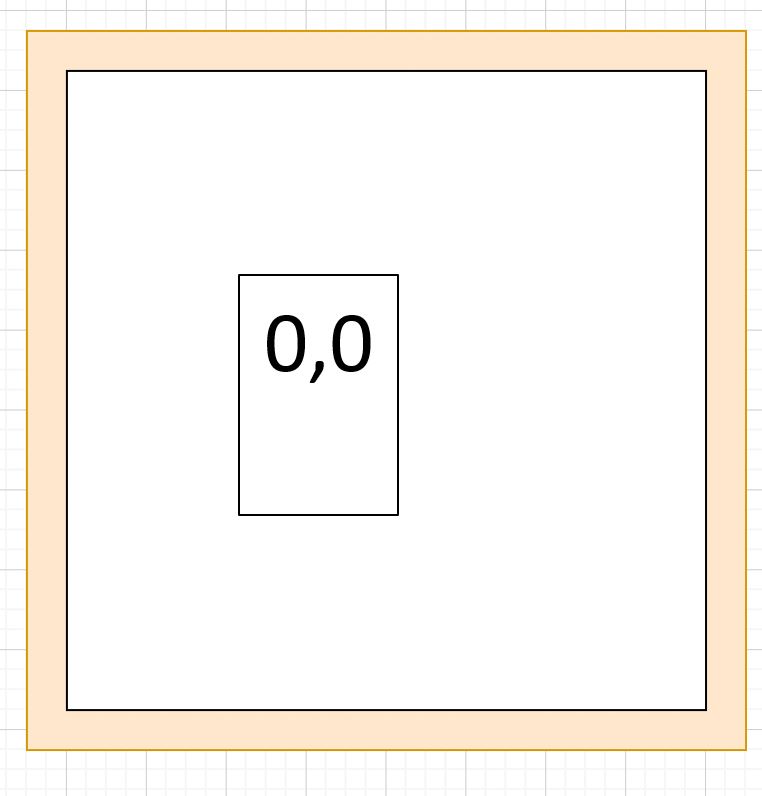
MPI\_type\_vector

(count, blocklen,stride,oldtype,newtype)

We want to store the blue data and we need to provide the information above.

The count number is the number of the blue regions. We have 3 blue region, so the count number =3. Each blue region is a block and contains 5 oldtype data. For example, we have 5 int or double, the old type is int or double relatively. So the blocklen here is 5. The stride is the length of the block region and the white region which contains data we don’t need. Here we can see, white region also has 5 oldtype data, so the stride length is 5+5=10. The newtype is MPI\_datatype, which is given by ourself.

e.g.



We try to construct a new vector type data to send and receive the information between ghost region and normal region.

For core(0,0), right edge. The count number is obvious local\_len\_y=9,blocklen=1,stride=local\_len\_x=12.

The top or bottom edge, the count number is local\_len\_x=12, blocklen=1,stride=1, because on x direction, it is continous data, on y direction, we have noncontinous data and we need to add the middle data length as the stride length.

MPI\_send(& buffer,) here buffer should be start position of the vector.

For c++ there are several points need to be notified.

First, the pointers have to be initialized to the memory by allocation. Or you have to use vector which is slower than array.

Also, for c++, the multi dimension memory is not continoues by allocation( only when you allocate by new), so we have to make one Dimension array, and construct it to multidimension by ourselves.

![Application

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENodW5oZW5nIFpoYW8AAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzY4AACSkgACAAAAAzY4AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIxOjEwOjA5IDEyOjU3OjMxADIwMjE6MTA6MDkgMTI6NTc6MzEAAABDAGgAdQBuAGgAZQBuAGcAIABaAGgAYQBvAAAA/+ELIGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjEtMTAtMDlUMTI6NTc6MzEuNjc1PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkNodW5oZW5nIFpoYW88L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgDHAL6AwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+j3/AIf94U6qzwSfL/pU33vRP/iad9nk/wCfub8k/wDiaAJ6an8X+8ai+zyf8/c35J/8TTUgk+b/AEqb73on/wATQBZpr/w/71RfZ5P+fub8k/8Aiaa8Eny/6VN19E/+JoAs0VB9nk/5+5vyT/4mj7PJ/wA/c35J/wDE0AFv/rrn/rr/AOyLU9UoIJDLcYuZRiTsF5+Vf9mpvs8n/P3N+Sf/ABNAEj/w/wC9T6rPBJ8v+lTdfRP/AImnfZ5P+fub8k/+JoAnpsf8X+8ai+zyf8/c35J/8TTUgk+b/Sphyeyf/E0AWaa/8P8AvVF9nk/5+5vyT/4mmvBJ8v8ApU3X0T/4mgCzRUH2eT/n7m/JP/iaPs8n/P3N+Sf/ABNABbf6y5/66/8Asq1PVK3hcyXGLmUYl7BeflH+zU32eT/n7m/JP/iaAJX6r/vU6qzwSZX/AEqbr6J/8TTvs8n/AD9zfkn/AMTQBPTY+h+pqL7PJ/z9zfkn/wATTUgkwf8ASphz6J/8TQBZpr9V+tRfZ5P+fub8k/8Aiaa8EmV/0qbr6J/8TQBZoqD7PJ/z9zfkn/xNH2eT/n7m/JP/AImgAtfv3H/XU/yFT1St4HLT4uZRiU9AvPA/2am+zyf8/c35J/8AE0ASP95PrT6rPBJlf9Km6+if/E077PJ/z9zfkn/xNAE9Nj+6fqai+zyf8/c35J/8TTUgkwf9Km6+if8AxNAFmmP95PrUf2eT/n7m/JP/AImmvBJlf9Km6+if/E0AWaKg+zyf8/c35J/8TR9nk/5+5vyT/wCJoALXrP8A9dT/ACFT1StoJCZsXMoxKegXnp/s1N9nk/5+5vyT/wCJoAkf7yfWn1WaCTcv+lTdfRP/AImnfZ5P+fub8k/+JoAnpkf3T9TUf2eT/n7m/JP/AImmpBIVP+lTDn0T/wCJoAs01/vJ9ai+zyf8/c35J/8AE01oJNy/6VN19E/+JoAs0VB9nk/5+5vyT/4mj7PJ/wA/c35J/wDE0AFp0m/66tU9UraCQ+bi5lH71ugXn/x2pvs8n/P3N+Sf/E0ASP8AeT60+qzQSbl/0qbr6J/8TTvs8n/P3N+Sf/E0AT0yP7v41H9nk/5+5vyT/wCJpscEhX/j6mHPon/xNAFmmv8AfT61F9nk/wCfub8k/wDiaa0Em5f9Km6+if8AxNAFmioPs8n/AD9zfkn/AMTR9nk/5+5vyT/4mgAtPuy/9dX/AJ1PVK1gkKyYuZR+9boF55/3am+zyf8AP3N+Sf8AxNAEj/fT60+qzQSbl/0qbr6J/wDE077PJ/z9zfkn/wATQBPTIvufjUf2eT/n7m/JP/iabHBJs/4+ph+Cf/E0AWaa330+tRfZ5P8An7m/JP8A4mmtBJvX/SpvyT/4mgCzRUH2eT/n7m/JP/iaPs8n/P3N+Sf/ABNABaf6uT/rq/8A6EanqlawOY3xcyj96/QL/eP+zU32eT/n7m/JP/iaAJG++n1p9Vmgk3r/AKVN+Sf/ABNO+zyf8/c35J/8TQBPTYv9WKi+zyf8/c35J/8AE02OCQoP9KmH4J/8TQBZprf6xPxqL7PJ/wA/c35J/wDE01oJN6/6VN37J/8AE0AWaKg+zyf8/c35J/8AE0fZ5P8An7m/JP8A4mgAtP8AVP8A9dZP/QjU9UrWBzG+LmUfvH6Bf7x/2am+zyf8/c35J/8AE0ASN/rE/Gn1WaCTev8ApU3fsn/xNO+zyf8AP3N+Sf8AxNAE9Nj/ANWKi+zyf8/c35J/8TTY4JNg/wBKmH4J/wDE0AWaa3+sT8ai+zyf8/c35J/8TTWgk8xf9Km79k/+JoAs0VB9nk/5+5vyT/4mj7PJ/wA/c35J/wDE0AFp/qW/66yf+hmp6pWsEhhbFzKP3j9An94/7NTfZ5P+fub8k/8AiaAJW/1ifjTqrNBJ5i/6VN37J/8AE077PJ/z9zfkn/xNAE9Nj/1YqL7PJ/z9zfkn/wATTY4JPLH+lTD8E/8AiaALNFQfZ5P+fub8k/8AiaPs8n/P3N+Sf/E0ASv/AA/7wp1Ru+cfKw59Kdv/ANlvyoAdTU/i/wB40b/9lvyrIufE+k6fdy213cskyH5l8pjjIz2HvWVStTpLmqSSXm7FRhKbtFXNmmv/AA/71Yf/AAmmhf8AP23/AH5f/CkbxnoZx/pjcHP+pf8AwrD69hP+fsf/AAJf5mnsK38r+5m/RWD/AMJpoX/P23/fl/8ACj/hNNC/5+2/78v/AIUfX8J/z9j96/zD2Fb+V/czXt/9dc/9df8A2RanrnIfGOiJJMWu2w8mR+5fptA9Papf+E00L/n7b/vy/wDhR9ewn/P2P/gS/wAw9hW/lf3M3H/h/wB6nVgN4z0M4xeNwc/6l/8ACl/4TTQv+ftv+/L/AOFH1/Cf8/Y/ev8AMPYVv5X9zN6mx/xf7xrD/wCE00L/AJ+2/wC/L/4Ui+M9DXObxuTn/Uv/AIUfXsJ/z9j/AOBL/MPYVv5X9zN+mv8Aw/71Yf8Awmmhf8/bf9+X/wAKRvGehnGLxuDn/Uv/AIUfX8J/z9j96/zD2Fb+V/czforB/wCE00L/AJ+2/wC/L/4Uf8JpoX/P23/fl/8ACj6/hP8An7H/AMCX+Yewrfyv7ma9t/rLn/rr/wCyrU9c5D4w0RHmLXbfPJuH7l+mAPT2qX/hNNC/5+2/78v/AIUfX8J/z9j96/zD2Fb+V/czcfqv+9TqwG8Z6GcYvG4Of9S/+FL/AMJpoX/P23/fl/8ACj6/hP8An7H/AMCX+Yewrfyv7jepsfQ/U1h/8JpoX/P23/fl/wDCkTxnoag5vG65/wBS/wDhR9fwn/P2P3r/ADD2Fb+V/cb9Nfqv1rD/AOE00L/n7b/vy/8AhSN4z0Mlf9Mbg5/1L/4UfX8J/wA/Y/8AgS/zD2Fb+V/czforB/4TTQv+ftv+/L/4Uf8ACaaF/wA/bf8Afl/8KPr+E/5+x+9f5h7Ct/K/uZr2337j/rqf5Cp65yDxhoiNMWu2+aQsP3L9MD2qX/hNNC/5+2/78v8A4UfX8J/z9j/4Ev8AMPYVv5X9zNx+q/WnVgN4z0MlcXjcHP8AqX/wpf8AhNNC/wCftv8Avy/+FH1/Cf8AP2P3r/MPYVv5X9zN6mR/dP1NYn/CaaF/z9t/35f/AApF8Z6GoObxuv8Azxf/AAo+v4T/AJ+x+9f5h7Ct/K/uZv0x/vJ9axP+E00L/n7b/vy/+FI3jPQyVxdtwf8Ani/+FH1/Cf8AP2P3r/MPYVv5X9zN+isH/hNNC/5+2/78v/hR/wAJpoX/AD9t/wB+X/wo+v4T/n7H/wACX+Yewrfyv7ma9r1n/wCup/kKnrnIPGGiRmXddt80hYfuX6ce1S/8JpoX/P23/fl/8KPr+E/5+x+9f5h7Ct/K/uNt/vJ9afWA3jPQyVxeNwf+eL/4Uv8Awmmhf8/bf9+X/wAKPr2E/wCfsf8AwJf5h7Ct/K/uZvU2P7p+prD/AOE00L/n7b/vy/8AhSJ4z0NRzdt1/wCeL/4UfX8J/wA/Y/ev8w9hW/lf3G/TX+8n1rD/AOE00L/n7b/vy/8AhSN4z0Msp+2Nwf8Ani/+FH17Cf8AP2P/AIEv8w9hW/lf3M36Kwf+E00L/n7b/vy/+FH/AAmmhf8AP23/AH5f/Cj6/hP+fsfvX+Yewrfyv7jXtOk3/XVqnrnLfxjokfmbrtvmkLD9y/T8ql/4TTQv+ftv+/L/AOFH1/Cf8/Y/+BL/ADD2Fb+V/czcf7yfWnVgN4z0MspF43B/54v/AIUv/CaaF/z9t/35f/Cj6/hP+fsfvX+Yewrfyv7jepkX3PxrE/4TTQv+ftv+/L/4UieMtDVcG8br/wA8X/wo+v4T/n7H/wACX+Yewrfyv7mb9Mf76fWsT/hNNC/5+2/78v8A4UjeM9DLKftjcH/ni/8AhR9fwn/P2P3r/MPYVv5X9xv0Vg/8JpoX/P23/fl/8KP+E00L/n7b/vy/+FH17Cf8/Y/+BL/MPYVv5X9zNe0+7L/11f8AnU9c5b+MdEjWQNdtzIzD9y/Qn6VL/wAJpoX/AD9t/wB+X/wo+v4T/n7H71/mHsK38r+5m4/30+tOrAbxnoZZT9sbj/pi/wDhS/8ACaaF/wA/bf8Afl/8KPr2E/5+x/8AAl/mHsK38r+5m9TY/ufjWH/wmmhf8/bf9+X/AMKRPGehquDeN/35f/Cj6/hP+fsfvX+Yewrfyv7mb9Nb76fWsP8A4TTQv+ftv+/L/wCFI3jPQyyn7Y3H/TF/8KPr+E/5+x/8CX+Yewrfyv7mb9FYP/CaaF/z9t/35f8Awo/4TTQv+ftv+/L/AOFH1/Cf8/Y/ev8AMPYVv5X9xr2n+rk/66v/AOhGp65y38Y6JGjhrthmRmH7l+hJPpUv/CaaF/z9t/35f/Cj6/hP+fsf/Al/mHsK38r+5m4330+tOrAbxnoZZT9sbj/pi/8AhS/8JpoX/P23/fl/8KPr+E/5+x+9f5h7Ct/K/uN6mxf6sVh/8JpoX/P23/fl/wDCkTxloarg3jf9+X/wo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