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Description automatically 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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtLS0BAQMzMzLOzswAAAB8fH2FhYQAAAAAAABEREQAAAAAAAAAAAAAAAAAAAAAAAJubm/b29gkJCTc3NzAwMBMTE/X19cDAwNLS0v///8/Pz7CwsFVVVQEBAQAAAAAAAAAAANra2piYmPj4+AQEBD09PT8/PxgYGAICAuzs7MHBwb6+vvj4+KysrP///0dHRwAAAAAAAAAAAO/v76Ojo9TU1AAAACIiIkdHRycnJwoKCgAAAP7+/t/f36ioqODg4P///8vLyx4eHkdHRwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC50uabvtv9/v7///4A//8A//8A//4AAP8A//8A//8AAP4A//8A//8AAP8A//8A//4A//8AAP8A//4A//8A////AP8A//8A//4AAP8A//8A//8A//4AAAAA/v8A//4A//8A//4A/v8A//4A//0A7q8ADTkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC5ubn8/PwAAABgYGAyMjIAAAAAAAAAAAAAAAAKCgpCQkIBAQGmpqYAAAC9vb01NTUeHh4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPDw8PDw8PDw8AAAAAAAAHBwcaGhoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD4+Pg4ODhNTU0WFhYAAAAAAAAAAAAoKCidnZ3MzMwAAADAwMBFRUUREREAAAAAAAD09PSdnZ34+PgBAQFUVFRCQkIBAQEAAAAAAAAVFRVUVFQZGRmjo6P9/f2vr68jIyMkJCQAAAAAAADa2trT09MAAAAbGxtzc3MFBQUAAAAAAAAAAAACAgIjIyNtbW2JiYnq6ur////ExMRHR0cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+Pv9m77a/f39///+AP//AP//AP/+AAD/AP//AP//AAD+AP//AP//AAD/AP//AP/+AP//AP//AP/+AP//AP///wD/AP/+AP/+AAD/AP//AP//AP/+AAD/AAD/AP/8AP//AP/+AP7/AP/+AP//AP7+APbWAPzuAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7+AAAAAAAADAwMAAAAAAAAAAAAAAAAAAAAAAAAAAAAPT09GRkZAAAA+/v7u7u7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAX19fYmJiFhYWAAAAAAAAAAAAAAAABAQEUlJSBgYGAAAA+/v719fXAAAAAAAAAAAAubm57u7uAAAAJycnPz8/AQEBAAAAAAAAAAAAAAAAAAAAOTk5Ly8vAAAA/f39rKys/v7+AAAAAAAAAAAAAAAAAAAABgYGAwMDAAAAAAAAAOvcdrkAACAASURBVAAAAAAAAAAAAAAADg4OQUFBAAAAAAAA6enpAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANHh7+jv9/8A/wD//wD//gD//gAA/wD//wD//gAA/gD//wD//wD//wD//gD//gD//wD//gAA/gD//wD///8A/wD//gD//wAA/wD//wD//gD//gD//w8KBwD87QD99QD//gD+/wD//gD//wD+/gD//wD9+QD21gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBDExMQAAAAAAANXV1fPz8wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABwcHAEBAQAAAAAAAAAAAAAAAAAAAAAAABMTExwcHAAAAAAAAPDw8AAAAAAAAPf398jIyAAAAAAAADw8PAQEBAAAAAAAAAAAAAAAAAAAAAAAAAICAkVFRQEBAQAAAN3d3eHh4QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACMjIwAAAAAAAP///wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADT4u/9//4A//8A//4A//8AAP8A//8A//4A//8A//8A//8A//8AAP4A//8A//8A//4AAP8A//8A//////4A//4A//8A//8A//8A//4A//8A//8AAP8kGxMA9MQA/v4A/v8A//4A//8A/v4A//8A//8A//0A9tkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAiIiIAAAAAAADz8/Pn5+cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIPDw8AAAAAAAAAAAAAAAAAAADh4eHw8PAAAAABAQEnJycAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAbGxsREREAAAAAAADT09MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1+XvAP//AP/+AP//AAD/AP//AP/+AP//AAD/AP//AP/+AAD+AP//AP//AP/+AAD/AP//AP/////+AAD/AP//AP//AAD/AP/+AP//AP//AAD/AgIBXT8UAPC0AP//AP/+AP7/AP7+AP//AP/+AP7+AP7/APffAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRUVAAAAAAAAAAAA5OTkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAA4uLiAAAAAAAADQ0NCQkJAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIFRUVAAAAAAAA4uLiAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAODr8wD//gD//wAA/wD//gD//gD//wAA/wD//gD//gD//wD//wD//wD//gAA/wD//////////gAA/wD//wD//wAA/gD//gD//wD//wAA/wIBAWxKHTkRowD88QD//gD+/wD//gD//wD//gD+/wD//gD//gD56gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoKCgAAAAAAAAAAAO/v7wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPPz8wAAAAAAAAgICAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBAQsLCwAAAAAAAPHx8f39/QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADq8fcA//8A//8AAP4A//8A//8A//4AAP8A//8A//8AAP8A//4A//8JBwMXDgQDAv4A//8AAP8A//8A//8A//4A//8A//8A//8IBwIpGgNVNPMfB6YA+vEA/v8A//4A//8A/v4A//8A//8A//4A//8A/v4A/vkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHBwcAAAAAAAAAAAD4+PgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD9/f3///8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+/v9AP/+AAD/AP//AP//AP/+AAD/AP//AP//AAD/AP/+HBMLdU0HMhrSBP/mAP/9AP//AP7+AP//AP//AP/+AP7/AP//AAD/AP79Af31AP75APz+AP7/AP/+AP//AP7+AP//AP//AP/+AP7/AP/+AP//AP//AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+vr6AAAAAAAAAAAAAQEBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwMDAAAAAAAA////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////AAAAAAAABwcHAwMDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcEAfn7/wD//wD//wD//gAA/wD//wD//wAA/gD//zAgFY5d9wr7rAD9+wD//gD+/wD//wD//gD//wD+/gD//wD//gD//wD+/gD//wD//wD//gD+/wD//gD//wD+/gD//wD//wD//gD+/wD//gD//wD+/gADDwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPn5+QAAAAAAAAAAAAwMDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABMTEwAAAAAAAPHx8fz8/AUFBQAAAAAAAAAAAAAAAAAAAAAAAAAAAP////Pz8wAAAAAAABMTEwEBAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAXDwgA//8A//4A//4AAP8A//8A//8AAP4A//8aEQuJXhsK+7IA//sA//4A/v8A//8A//4A//8A/v4A//8A//4A/v8A/v4A//8A//4A/v4A/v8A//4A//8A/v4A//8A//4A//4A/v4A//4A//8A/v4A//8ACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADq6uoAAAAAAAAAAAAXFxcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAfHx8AAAAAAAD6+vrp6ekAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD5+fnv7+8AAAAAAAAhISEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHhQMAP/+AP//AAD/AP//AP//AP/+AP//AP//XEIrDwLGAP/6AP/+AP7/AP/+AP/+AP/+AP7+AP/+AP/+AP7/AP/+AP//AP/+AP7/AP/+AP/+AP7+AP7+AP//AP/+AP7/AP7+AP//AP/+AP7+AP//AP//AA0uAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3NzcAAAAAAAABAQEICAgAAAAAAAAAAAAAAAAAAAAAAAA8vLyAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGBgYGBgYAAAAAAAA1tbWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA7u7u7+/vAAAAAgICLS0tAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACscEQD//wD//wD//wD//gD//gAA/wD//gwHBDopGgD74gD+/wD+/gD//gD//wD//gD+/wD//gD//wD+/gD//gD//wD//gD+/wD//gD//wD+/gD//wD//wD//gD+/wD//gD//wD+/gD+/wD//wD//gABCAAPNgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPv7+83NzQAAAAAAACMjIxUVFQAAAAAAAAAAAA4ODgAAAAAAAN3d3QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7+/gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYGBjk5OQAAAAAAAMnJyfn5+QAAAAAAAAAAAAAAAAAAAAAAAAAAAMfHx/7+/gAAACwsLBUVFQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsHxICAQAAAP8A//4A//8AAP8A//4A//8MCAQOCgcA/vwA//4A//8A//8A/v4A/v8A//4A/v8A/v4A//8A//8A//4A/v8A//4A//8A/v4A//8A//8A//4A/v8A//4A//8A/v4A//8A//4A//4A/v8AET4ABA8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADi4uL+/v4AAAAAAAAAAAAAAAAAAAD///+6urro6OgAAAACAgJGRkYCAgIAAAAAAAAAAAAiIiIAAAAAAADAwMDp6ekAAAAAAAAAAAAAAAAAAAAAAAD9/f3d3d0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAREREAAAAAAADt7e39/f0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAQEAVFRUAAADn5+e+vr7///8AAAAAAAAAAAAAAAAAAADk5OTExMQAAAAFBQVQUFABAQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALh8UFA0HAP/+AP//AP//AP/+AP//AP///wD/AQAAAP/+AP//AP//AP7+AP//AP/+AP7/AP/+AP//AP/+AP7+AP7/AP/+AP//AP7+AP//AP//AP/+AP7/AP/+AP//AP7+AP//AP/+AP//AP7+AAEGABlaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAq6urjY2NzMzM8fHx/////v7+7u7ur6+vtLS0AAAAAAAAODg4LCwsAAAAAAAAAAAAAAAARkZGBQUFAAAA8PDwkJCQysrK9PT0////////8fHxzs7OkZGRpqamAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHx8fDQ0NAAAA8PDwxsbG////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgoKXl5eBwcH////s7Ozvr6++fn5AAAAAAAA/v7+2tramZmZ9PT0AgICUVFRHR0dAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcFA1k+J5Kyzf///gAA/wD//wD///8A/wD//wAAAAAAAAD//gD+/wD//gD//wD+/wD//gD//wD//gD+/wD//gD//wD+/gD//wD//wD//gD+/wD//gD//wD//gD+/wD//wD//gD//wD+/gAAAgAbXwAMKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4ODtvb29ra2gwMDA4ODv////Hx8fb29gAAAAAAAC8vL1hYWAICAgAAAAAAAAAAAAAAACQkJFdXV6urq/n5+ezs7Jubmw8PDwsLCwAAAPLy8vX19f///wkJCff39wAAAAAAAAAAAAAAAAAAAAAAAAAAAA8PD09PT6ioqPz8/Kamps/PzyMjIzU1NRYWFgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgoKGNjY6KiovT09KmpqcDAwBsbGwMDA+nplQ6CFgAAIABJREFU6eXl5fz8/AcHB0tLS0RERAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABROCTQ3ejC1OL//v8A//////4AAP8A//8AAAAA/v4A/v8A//4A//8A/v4A//8A//4A//8A/v8AAQkAAw0A//4A//8A//8A//4A/v8A//8AAP8A/v4A//8A//8A//8A/v8AAQIABxsAFUsAE0MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABfX1/z8/O/v7/l5eXm5uYAAAAAAAACAgIQEBBBQUFDQ0MFBQUAAAAAAAAAAAAAAAAAAAAAAAA/Pz8ZGRmxsbHf39/7+/vx8fHx8fEEBAQICAgnJycwMDAvLy95eXkAAAADAwMCAgIAAAAAAAAAAAAAAAAAAAA+Pj4PDw+1tbXm5ubU1NTT09MVFRUWFhYAAAABAQEJCQn+/v4AAAACAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHBwcKCgoAAAAFBQUAAAAAAAAAAAAAAAAAAAAxMTEZGRm1tbXU1NTp6eno6OgAAAABAQEHBwcqKipJSUkkJCQAAAAAAAAAAAAAAAAAAAADAwMKCgoAAAAICAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAgIKCgoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB////AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+fv9r8bZtcrc4env+fv8AP//GBALqHtUCe94APrgAP7/AP/+AP//AP/+AP//AP7/AP/+ABFSABNZAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAMLAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcnJy8/PzAAAAdXV1JiYm////6urq5ubm8PDwCAgIFBQUHh4eBwcHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA////6enp6urq+fn5DAwMDQ0NExMTCQkJAAAA9fX1cHBwAAAAFxcXf39/BQUFAAAAAAAAAAAAAAAAAAAAAAAA/v7+7Ozs7+/v/v7+GxsbDg4OAAAA////+Pj4////AAAACAgIAgICAAAAAAAAAAAAAAAAAAAAAAAAAAAA+fn5/f39AAAABQUFBQUFAAAAAAAAAAAAAAAAAAAAAAAAAAAA9PT05+fn8PDwAAAADQ0NGBgYDw8PAQEBAAAAAAAAAAAAAAAAAAAAAAAA/Pz8+vr6AAAAAgICCAgIAAAAAAAAAAAAAAAAAAAAAAAAAAAA/v7++Pj4AAAAAAAACgoKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcFA1g/Klg/KgAAAAAAAAA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**Processing 2**

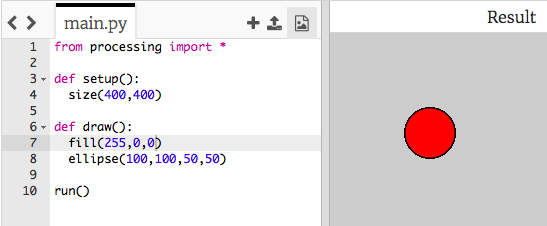
**RGB Colour**

We’ve created some Python introductory exercises for you to work through. We will use a web-site called Trinket to run Python. Type **trinket.io** in the browser.

You can **sign-up** with your own email, or **log-in** with my account [steve.battle@uwe.ac.uk](mailto:steve.battle@uwe.ac.uk), using the password code-club67

This is a shared account, so add your **name** to any files you save

* Open the previous trinket. Mine was zany-steve. You should be able to find a button like “**View All My Trinkets**” or the **“My Trinkets”** menu.
* Change the colour of a shape using the **fill** function.
* Colours are a mixture of three primary colours: **red**, **green**, and **blue**. The brightness of each colour is given by a number between 0 (off) and 255 (full brightness).
* Call the **fill(R,G,B)** function before drawing the shape, where R,G,B are the Red, Green, and Blue levels. This draws a red circle.



* If you want to get rid of the edge around a shape, you can use the **noStroke** function before drawing it.

*Does it still look two-dimensional without the edge?*

* We can also change the colour of the stroke in the same way we set the fill colour, specifying Red, Green, and Blue levels. We can do this by calling the [**stroke(R,G,B)**](https://py.processing.org/reference/stroke.html) function before drawing the ellipse shape. For example, **stroke(0,0,0)** sets up for a black stroke.

*It's now like a simple drawing tool.*

* Change the background colour of the canvas with the **background** function. Let's make the background blue.

Graphical user interface, text, application

Description automatically generated

* Try changing the background by adding it to the end of setup as above, and at the beginning of draw.

*Can you explain the difference?*

* We can make the colours change over time by replacing any of the RGB values with a number that gradually changes from 0 to 255. There’s a built-in variable called **frameCount** that increases by 1 for each *frame* it **draws**. If we divide this by 256 and take the remainder we’re left with a number from 0 to 255. See if you can work out where to put this:

**frameCount%256**

* Instead of RGB colours, we can also use a single number specify a value on a grey-scale, including all the greys from black to white. This grey-scale runs from 0 (black) to 255 (white).
* Click **Save** to save your program