Lotka-Volterra Model Simulations

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1. Introduction

In the 1920s, the Italian mathematician Vito Volterra proposed a differential equation model to describe the population dynamics of two interacting species, a predator, and its prey. He hoped to explain the observed increase in predator fish and the corresponding prey fish in the Adriatic Sea during World War 1. Independently, the very equations were derived by Alfred Lotka to describe a hypothetical chemical reaction in which chemical concentrations oscillate. Such mathematical models have long proven useful in describing how populations vary over time. The aim of this report is to study the interactions between predator and prey for two and three species ecologies using the Lotka-Volterra model whose first order nonlinear differential equations are solved by using the Fourth Order Runge Kutta Method.

1. Theory

2.1 Runge-Kutta Method

The Runge-Kutta method hereafter called as RK method is the generalization of the concept used in Modified Euler's method.

In Modified Euler's method the slope of the solution curve has been approximated with the slopes of the curve at the end points of each subinterval in computing the solution.  The natural generalization of this concept is computing the slope by taking a weighted average of the slopes taken at more number of points in each sub interval.  However, the implementation of the scheme differs from Modified Euler's method so that the developed algorithm is explicit in nature.  The final form of the scheme is of the form

**yi+1  =  yi +  (**weighted average of the slopes**)** for **i = 0, 1, 2 . . .**

where **h** is the step length and **yi** and **yi+1** are the values of **y** at **xi**and **xi+1** respectively.

In general, the slope is computed at various points **xs** in each sub interval **[xi, xi+1]** and multiplied them with the step length **h** and then weighted average of it is then added to **yi** to compute **yi+1**.  Thus the RK method with **v** slopes called as v-stage RK method can be written as

**K1  =  h f(xi, yi)**

**K2  =  h f(xi + c2h, yi + a21K1)**

**K3  =  h f(xi + c3h, yi + a31K1+ a32K2)**

**Kv  =  h f(xi + cvh, yi + av1K1+ av2K2 + . . . +avv-1Kv-1)**

**and**

**yi+1  =  yi +  (W1 K1 + W2 K2 + . . . + Wv Kv )** for **i = 0, 1, 2 . . .**

For the purpose of this report, only the first four weighted increments are being used for the estimation of population in a time series. This is the fourth order Runge-Kutta method (RK4).

2.2 Lotka-Volterra Model

The Lotka-Volterra model consists of the following system of differential equations for two species:

Where and represent, respectively, the predator population and the prey population as functions of time. The parameters are interpreted as follows:

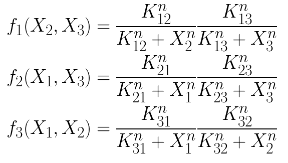
* represents the natural growth rate of the prey in the absence of predators
* represents the effect of predation on the prey
* represents the natural death rate of the predator in the absence of prey,
* represents the efficiency and propagation rate of the predator in the presence of prey.

For three species in a linear three-species food chain where lowest-level prey is preyed upon by a mid-level species , which, in turn, is preyed upon by a top-level predator . Examples of such three-species ecosystems include: mouse-snake-owl and worm-robin-falcon. The differential equations for this case are

Where and

* represents the effect of predation on species by species
* represents the natural death rate of the predator in the absence of prey,
* represents the efficiency and propagation rate of the predator in the presence of prey.

The coexistence of multiple stables steady states (=multistability) can be illustrated with a variant of the Lotka-Volterra model in which the growth rates are described by "inhibitory" Hill function:



Where in our case and

3. Code

The following are snippets of the code along with their explanations.

![Graphical user interface, text, application, email

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5pc2ggQWJzAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMjkAAJKSAAIAAAADMjkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAGSu0cLukbSMoJCLjLewzXkh03xLfeENfgbwvfW9xNqaXsEMk0BMq/aFcqCHIBxnqRXr1FLrf8ArdP9Ck7W9bnnDWPiKbxheXdrpF1ZrqOjx26XTSx4tZVZzhwGz/EPug1zM/g64udBls4fhuh1lYvm1a/kgczODyVcMXJPbcB717bRTev9ev8AmT/X4JfocHe6t4qsfh9psWjeF71tSaJLeWEzQbrcKApfl9pOBkDPpnFZ66frHhK80248MeHtUvPtfzamjXEJ3E9WYtJ9/wBxnI78CvTKPpTv73N/Xp6Ct7qiIhLICVKkjJB7UtcxdQ+OzdymyvvDy2+4+WJbOcuF7ZIkAJ/CmwQePRcIbm/8OtDuG8R2c4Yj2Jl60lqPYz9STW/D3jq81jT9CuNatdRt44ytpLGrwsnHPmMowcnpmum0K61a8smm1uyisZGf93Ckm9lX/a7Z+hIrTHvRQtFYHq7/ANdgrO1Hw9o+sTLLqumWt5IgwrTwhyB6c1o0UnFS0aLhUnTlzQbT8jGt/B/hy0uEuLXQ7CGaNtySJbqCp9QcVs0UUKKirIdStUqu9STfq7hXHX15q8/iWwv4/Dd+YrSOWNh5kOW3FcEfP/s12NFb0aqpNvlT9b+nRmlCsqLb5U76a36qz2aMvUrJtb0Py5Ynt5TslWNyMo6kMASCR1GOKzyNR12a2t77TJrGC3lWWSSR0IlKngLtJOPriukopxrOKsl6eX9eY4YhwjZJeW+l+3/BuFFFFYHMFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH//2Q==)

This is the opening block of code for the two species L-V model. Here, all the necessary constants such as initial population of predator and prey, initial time and the integration time limit and the number of differential equation (which is 2 in this case).

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Description automatically 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This main loop runs till the integration time limit and calls the RK4 subroutine to solve the differential equations. The time is incremented at each step. Along with this, the population is updated as well.

![Text

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In this snippet, the weighted increments are calculated at each iteration and the population is updated.

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5pc2ggQWJzAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMjIAAJKSAAIAAAADMjIAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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In this snippet, the Lotka-Volterra model for two species is defined and the interaction parameters are defined.

The following snippets will discuss the three species L-V model.

![Graphical user interface, text, application, email

Description automatically 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FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADI/uU+mR/cp9ABRRRQAUUVHO0iW8jQRiSRVJVC20MfTPak3ZXAkorA8KeJj4i0JtQu7RdPeOeSCSIzCQKyOVPzYGeR6VpXupi1tBPb2819ubaFtgH59T6Cm9Nw62LtFYHhPxLJ4ms7uaWwNk9rdSWzIZd+SjFSc4HpT9U8UW2l+IdM0qQIzX5kBkMoXytgB5Hvn2o6pdx238v0NyimRTxTgmGVJAOpRgcU17qCJ9kk8aN/dZwDQIloqC8uTa2ck6wyXBRciOFdzP7AVysvjTVdNnt5fEHhw2OnXEqxJcx3YlZGc4XemwbckgdTjNC1dg6XOxooBz0ooAKKKKACiiq1/ex6faNPKCwzhVXqxPQCmk5OyHGLk7Is0Vk2+r3S38dtqlitmJsiF1n8wOfQ8DBxk/hWtVThKD1LnTlTdpf5/kFFFYH9uapcX11Bp2kRTx2z7DJJeeXk/TYacKcp3t080vzHTpSqX5endpfmb9FR27yvbo1xEIpSPmRX3BT9cDNSVD0djNqzsFFFFIQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAyP7n40+mR/c/Gn0AFFFFABQehoqO4jaa3kjSVoWdSBImNy+4zxSewHi3heVPEf2rwlrFqLbSptQumMs4BF4wnc7EPbHvg+lev6To2naDpy2OjWUNlapyIoECrn1wO9cyfhtbf8ImuiR6zqEbrcm6F+oi8/wAwvvJzs2jk9hWvL4fv38Ox6aniXU4rhGBOoKsPnOPQgpt/8dqntZf8ON6zb838tTJ+G/8Ax461/wBhi7/9HNWR4y8HeHL/AOJHh2S+0PT7h71rg3LSW6sZtqpjdkc4962PDfgC48N3xmg8WaxcwvM881tOsGyV3JJJ2xg9TngitfxJ4Zh8RxWxN3cWF3aP5lveWpXzIieuNwKnOB1Bo0Ti+3+Vgbu5ed/xuLa6FpHhTSL1vDmk2mn/ALtpClrCqB2UHGQBzXPeHfCOg+JNBttX1/T7XVdRuN0jXVxEHdDuPyqTyNvT8K3dC8LLpFzLdXeqX2rXcqeW0946/d9NiBV/HGaoXHgRvtEn9k+IdU0m0lYvJZ2piMbE/e5dGYZ9iKOv9aCW3Ym8B3lxc6JdQ3MrTCzvZLaKVzkuihSCT36msX4g2F/DJb6tf6j9r0W3u4Wk03YI8EuoVt45bDEHB9K61PDunxaANIgR4rYLgeXIytn13ZzmsOD4fh7uF9b8Q6prVtA4eK0uzEI1YHIPyIpOPcml9pPtb+v6+8Ft63OuicSQo6fdZQR9KVvunr07UoAAAAwB0FFDBHA3Ntem7mK6P4sYb2w0erIqnnqB5vA9q3PC0U8bXHn2WsWuduP7SvFn3dfu4dsV0VFZQpKLvc9Gtj5Vafs3FL5y/V2CsLxTuCaW3OxdRhLH0G6t2oby0ivrSS3nGUcYOOo9x711UpqE1JnJQmqdRSZjeJ8GfRlHLm/BUDr9x63JZooIzJPIkSL1Z2AA/E1l6foH2O6Fxd6hc6hKgxEbnZ+7HttA/M1Nr2i2/iHR5dOvHkSKXGWjOGGDmtJOm3CDei3fzNpOk3Cm5e6t3bu+iL8ciSxrJE6ujDIZTkH8awz4XQ3tzc/2lexee+/ZDMY1U++Dz+NaWk6ZDo+kwafbs7RQJsUuckj3rOuvDBnZ1t9Wv7W3kJMkETqVbJ55YFh+BopyUJNRnZd7dApSjCclGdl3tuiz4cvptQ0aOW5O6RXZCw/iwxAP6VqVDZ2kNjZx21smyKMYUVNWNSUZTbjsc9WUZVJSirK4UUUVBmFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAMj+5T6ZH9yn0AFFFFABSMyopZ2CqBkknAFLTJY0mheOVFdGBDKwyCPQik9EAkFxDdRCW2mjmjPR42DA/iKe7rGheRgqqMlmOAK8r8JaxLovg2ew8PQW0uqSaldLaWTAhNoncZIX7qj14FdncaHqHiLQYLTxNPHBJ5oknj05mVJVA+4Secc849KprsN6Np+f4G1bX9ne7vsd1BcbfveVIGx+VTNLGkio7qrv91ScFvpXn91pWm6f8QNHtvB9rFZ3UJZtQWzQJGIdhwJAvBYkrjPPeq3jL/hKP8AhZHh37AdI8vdP9l88S5+6m7fj9MUlq15hbf0uel0Vk6VJrcFpPL4mbTgUG5TYh9oUDnO+se21rxRrkI1Dw/baZHpzMwjF75nmyAEjcNpwAccZo6iOuqOO5gmkeOKaN3T76q4JX6jtWRpl9beLfD7mRZoMsYZ40kZHjcdRuUgjqOlYHhLTrbTviN4oitE2Kq245Ykn92vJJ6n3oWrt5D+y3/W9juqKKD045oEFFYcmsa2krqnhieRQxAcXkI3D1wWq5pl7f3Zk+36VJp+3G3fOkm//vknFSpJu36M6JYecI8za/8AAov8E7mhQTjrRWN4lnaO0tLdWZReXcdu5U4IVjg4Na04c8lEzpU3Umo9zViuYJ2IhmjkK9Qjg4qSuc1O1t9F1DTbrTbeG3aa48iYRoFEiFSecdTlRzXR1VSCilKOzKq01FRlF6MKiluYIGCzTRxlugdwM1KTgE1zWj2lrr9re3Wp28c8jXU0SmRQxjVGKjbn7pwO3einBNOUtkOnTjKLnN6K34nS5yMimLNG7siSKzL95QwJFY+gO2p+HBFdsxKs8RZHKkgMQORz0xVXRbOG08ZaxHApAWGDqSSeD1J6mtPYpc6b1j/ml+pp9XS9om9Y/wCaX6nS0UUVzHIFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAMj+5T6ZH9z8afQAUUUUAFRzyeTbySbHk2qTsjGWb2A9akopPVWA8b8P6FqfhixPiqw0bUTqM9/N9p0/yd0k0DysQcZ+UgHNdp4k8SawPC8Fzoeh6kLi6fY6m23S2y92MeRn867Cim9VYd/ecu5wHhvVBpUltYaZ4U19nupSbu/wBQgEfJBJdmyc89uOtaHjK3voNb0LW7Own1CLT5JRPBbDdLtcKMqO+MdK6+infVMXc56w1W+8RC7t5tEutNsZIGRZrw7JWYjGPLx05POayNJ1fU/C+lx6Ne+H9SvpbclIZ7KEPFImflLNkbTjAPWu4opB6nMeHLK68N+Gbq5v7eWe6uJ3u5ba1XewZsDao4z0Fc7oeu3kPjrWb+bwt4gjt9RMCwu1kPl2oFJb5uBmvSaKFo7/IOjXf/AIcAcgHGM9jQRkYNFFAGHJ4M0CWV5JNPBd2LMfNfkn/gVXNM0PTtHMh022EPmY3fOzZx9Sa0KKlQjF3SOiWKrzjySm2u12FZmvWD3tjG0A3TWsy3Ea/3mU5x+NadFaQk4SUkZU5unJSXQ5xmuPEN/ZbrG6srezl85zcJtLttICj25zn2q/4kutTs9Cnm0K2W5vVx5cbDOeeeK1KK1dZc0Xy6Lobe3XPF8qtHp076lDRZ7660W2l1aAQXbpmWMDG01kwPceHWurODT7q7WaZ5oZIkyoLsWIY9sE10tFCqpN6aPoKNZJyvHR9DK0q1bRNACyLJPKoaV1iXLMSScAfjisax1KePxRf3j6Nqiw3SQohNv0Kgg5546111FVGvrJyV3L/hy44he+5xu5b/AHp/oAORRRRXMcgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAyP7n40+mR/cp9ABRRRQAVHP5v2eT7MUWXadhcEqD2yB2qSg9DSlsByPhnxl9o8Iz6v4rubGx+zXMsEsykxxDZIyA/MTjOPWrt34oW90GO+8HrFrbXEohieB90SnuzMOgH9a818ITXFzeSab4ijWHw/NqV0IWQ7luJfOc7Zf7o7Ac59q9b1HUtP8P6Wbi5KwwIMKiLyx7AAdTVS2v6Dt77iu7/AD0Oeh17xFoutWFn4rj0+aDUZDFDcWCPH5ThS2GDM2c46jFQeI/idofh/wAXafpFxrGmwrIZBe+dMA1vgKVzzxnJ61Y0mxu9Z1eDX/E6i08tj/Ztg7DMWQRub1cqTwOmSMmovFMMH/CwvCbSRx/M1yCWUcnamKNeaKYaa+h0Wi+JNF8RwyS6DqlrqMcRAdraUOFJ9cVX1Lxn4a0fUFsdV1ywtLtsYhmnVWOenBq5dywwWd3FYtEt0sDusaEbs44OB71heBrawm8GwyyLHNJIXa6eUAt5hY7w3pg5FLqL1OkuZ5lsHmsIluZduY03hQ57c1x9/wCIPFfhxra+1+HS59OnnjheK0R1lhLsFXLFiGwSM4Aq14AuRH4du/NlAs4b6VLV3bA8rjGCe2SayviBpcNlJa+JGv5rkwXcOzT7mTfA+5wuUXswznPPShWUk+jt+I7XTXqehg5AIopsT+ZCj4xuUHHpSnlTxnjpQ9BLUNw9RSgg9K4K58K3Ul3M48IaBIGdiHe9kDNk9SPL61t+F9Im0trjztF07TN+3H2KdpN+M9cquKyhOUnZr8/8j0a2EpQp88al32939JN/gdFVPVL8adaCQJ5kjuI4kzjc56CrlYXilG8nTpgMpDfwySH0UHk11UYqVRJnLh4KdVRlsOTUNRsNQgh1lrVobt/LheBGUq+MhTknPAP5Vt1geJCJrrR4Yvnka8D4HZQjZP0/xrWv9QtdLs3u9QnWCBPvO3QVdSPMotLV9vU0qw51BxWsui9bbFmsNtQ1S/ed9F+yiG3kaM+ejMZWU4YDBGORjnNatrdwX9mlzZyrLDKuUdehFY3hT/RdNvo7j920V7cO27spkYg/lzRTjyxlJrVW0YUo8sJSa1TSs/nfQ0rPUvt+kLeWcYldgf3e7b8wOCM/UVT0vVL+616+sb2GGNbdI3XYST8wJwTnB6U3wijLoIZlKiSWRlB9Nxpmnf8AI76z/wBcbf8Ak1auEIurFLbb70auEIutBLbb/wACSN+iiiuI88KKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAZH9yn0yP7lPoAKKKKACo54VubeSGQsEkUqxRipwfQjkVJTJ5o7aB5p2CRxqWZj2A70na2o1e+hzb/D3w8/hceHzBcjT/N87aLyUOX3bsl924889ade+AND1HRbTS7tb2SCzffC32+YSq3r5m7cfzrY0nWdO12wW90e7ju7ZiQJYzkEg4I/MVPd3dvY2z3F5MsMKDLO5wBTfmI5iz+Gnh+z1K2vlOpzzWr74vtOqXEyq2MZ2u5Hf0rZ17w7pviSzS21WJ3WNt8bxStFJG3qrqQy/gaj0bxZoXiCZ4tG1OC7kjGWVCcj86vz6haW15b2s86Rz3O7yYyeX29cfTIofZh1M/Q/CekeHneTToJDPINrT3Ezzykem9yWx7ZqnqHgDQdSvmu5Y7uF3O50tb6aCNz6siMFOe+RzXS0UdbgtFZFNtJsH0r+zWtIvsYXYIdg2gfSsTTvh54f03UEvI4ru4ljOY1vL2W4SM+qo7EA+4FdM7rGpZ2CqOpJxiqNjrmmaneXFpYXsU89qQJo0OSmfWjrfqFtPIv0UUUAFFFFABUc8EdzA8M6h45BtZT3FSUjusaF3IVQMkntTV76DV09DO03QLDSpmltVmaRht3TTvKQPQbicfhU+qaXZ6zp8llqMXnW8mNyZIzj3FMsda07UpnisbuOaSP7yr1FXq1nKqp80m+b8Tac60anNNtSXfcr2Fhb6ZYxWdlH5cEK7UXOcCqd/wCHdP1K7FzcrN5mAG8ud0V8f3gpAb8a1Ko3ut6bp0yRX13HC7/dVj1pQlVc7wbu+24U51nNypt8z7blia0imsmtCGSJk2fu2KED2I5H4VjReC9IhuTcRm+EpILP9vmy2Omfm5reVlZAykFSMg+1UYtc0ye/NlFeRtcj/lmDzVU51opqm352/UqlUxEU1Sbt1tf8S+BgYoqOaeK3jLzyKigZJY0yzvbfULVbiymWaFvuup4NY8rte2hhyytzW0J6KKKRIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFADI/uU+mR/cp9ABRRRQAUHoaKjnaRLeRoY/NkCkqm7buPpntSlswPKfCut3Mmg3mheGbpU1uTUbpt2wSLbp57/ADODwB7dfavRLbRnl0eO18STRa1Kj+Z5klsiDcOmFHHHPPvXAaZ4M1/RNHTV9M0uGPxF9vlmkgW6UJLE8pJR2xg4U/nXdS3fiKTQ4rm2022gvwcy2cs28EeiuMAH3NU9vu/TYctZvtd/mzk7q7m1b4p6P9u0uTRPsLSmKe5Klr0bGXahQkY53YYg8dKj8ZaXrk3xI8OtaeImtklafyE+xRv5GFTPJ+9n3rVbTfEPijXdMudb06LRrTTJjOI0uVnkmfaVxuHCjn0q74u0rVJ9S0jWNEgju7jTZH3Wskgj81XABwx4BGKS05b9Gwvq7djS0231LR7C5l1zWW1TYpkD/ZUh2AAkjC9axNPPibxLZR6tZ60uk28pJhtPsiS7kBIBZm5GQM8etaWmP4h1R7ldesLXT7KWIxrbpL5suTwSXB24xnjFZdgnirw1ZjSbHSIdVt4iwt7trtYtiE5AZTycZxxjOKfX+v6+8S20NXQr+LxXoE0eq2kTtFM1tdQuoZC64z16jkVk+GLWC1+JHieO2hSJES2VVRcADyl4FamiaTeeG/DU4iiXUNRlka5ljDiNZJGxkAnOBgCud0geMLTxjqeqXHhSNYdSMIIGqRkxBVCk/d56Zoj8Xy/HQPsv+uq/Q9DoPAP9aBkgZGD3FFIDk5vEGqJcSIl94ZCqxAEl+wYDPcY61qaFqV3fmb7ZPpU2zG3+z7gy4/3sgYq22i6W7Fn02zZmOSTApJP5VNbWNpZ7vslrDBu+95UYXP5VlGM09WehVrYeVPlhCzJ6w/FEh+z2FueY7m+iilH95SeRW5VDWdPOo2IWPAmhkWaEnoHXkZ9q6qMlGomzmw8oxqxctih4hJtrzSLiH5ZBdCIkd0KNlfpkA/hW9WAlrqWr39rJq1mtnDZv5qoswkMj4Izx0GCeKt+JItWm0KdPD8qxX5x5bNjA5568VrKKfJTur9+iu+5tOCk6dJyV9m76K77o1CcAmsDwxi+0+/muVDtPeTxyZH3lVyoH5cVo6Kl/HotsmsOsl6ExMy4wT+FZn2bVNImuYNIso7i3uJGlWRpgvlMxy2QeoySeKIRSUqaav3vpp5hTikp0k1e61vppfr9zM46hc2/w3vpkkPmwLKiP3ADHH5Vp6/bx2vhMG2URm18toSB9w7gOPwJH41Zh0CAeGn0iYlklRhI2eSWJJ/U1QktNY1O2j0y/tY4bZWXzblJgTKFOQAvUZIFdCnCU+ZOyUm36af8AB08zqVSnKfNF2Sk2/Naffs9PM3DbW97HBLdQRyugDoWUHacdqyfBIA8I2mBj73/oRrTv57y1hj/s6wF4c4K+cI9o/Ec1keFIdW0/T4NP1DTVhSMNmdblXyc5xtA96wim6EtVutLrz6HNFN4aWq3VlddOa+l79To6KKK5DhCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAZH9yn0yP7lPoAKKKKACiio50eS3kSKUwuykLIoBKn1weKTdlcCSiuF8M+L5LLwLdat4qvZboWd3PC86W2WZVlZQdkY9AOgreTVLnxH4eF14bZ7N5W2h7+1eJlHchGAOemMjFU9P67hs7Pz/AANyiuGjvtc8OeMdK0vUNcOtw6oXUrNBHHJBtRm3ARqMr8uOfWq/in4jJofjfS9MSHVDBulF2sWlyyiXCqV2MEO7GTnb+NLt5hZ6+R6DRWToXiK08Qwyy2VvfwLEQGF7ZS25OfQOoz+FUL/x7o1hfG1Zb+5ZW2tLZ2Es8aHuC6KVGO+TxR1sG+p0tFZt5f3E+gPeeHkivp3TNuDIArH61yWpyeKvCdnDrGoa+mpxmaOO4sXt40Qb3C/u2VQxILcZPajrZhutDv6KbG++NXwRuAOD2pxOOtAbhRWU/inQI5GSTW9OV1JDK10gIPp1q1Y6tp2p7/7Nv7a72Y3eRMr7frg1KlF6Jm0qFWMeaUWl6Mt0UVn6zqDafaRmEKZ55VgiDdNzHAzWkYuUlFEQg5yUV1NCisBpr7RtRtRfag97b3knkgPEimJ8Ej7oHGAevt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Here, the further interactions between the apex predator and the mid-level have been initialized.

![Table

Description automatically 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Here, a further level of complexity has been added by making the interactions depend directly on each other.

1. Data :

The Data Being presented are the outputs of the   
