

# Dinosaur algorithm



WB Monday 18th March 2024



LQ: Can I decompose a game to predict the algorithms that are used?

Steps to success



- All: I understand what the terms 'decomposition' and 'algorithm' mean.
- Most: I can decompose a game to predict algorithms.
- Some: I can plan algorithms for a more complex game.

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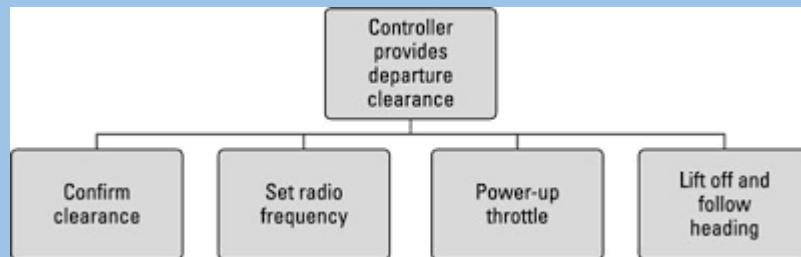
LQ: Can I decompose a game to predict the algorithms that are used?



STAR WORDS



decomposition



algorithm

$$\begin{aligned} &= 2,168 + 72,648 + 7,800 \\ &= 82,616 \approx 0,329 \times 10^5 \\ &\mu_1^2 = \mu_1^2 = \frac{2,168 + 72,648}{5 \times 2 - 2} \left( \frac{1}{4} + \frac{1}{9} \right) = 0,50 \\ &\mu_2^2 = \mu_2^2 = \frac{2,168 + 7,8}{5 \times 2 - 2} \left( \frac{1}{4} + \frac{1}{9} \right) = 0,15 \\ &\mu_3^2 = \mu_3^2 = \frac{72,648 + 7,8}{5 \times 2 - 2} \left( \frac{1}{4} + \frac{1}{9} \right) = 0,33 \\ &\mu_1 = 0,71 \quad \mu_2 = 0,508 \quad \mu_3 = 0,609 \end{aligned}$$

Predict



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TP:

What does the word algorithm mean?

Watch:

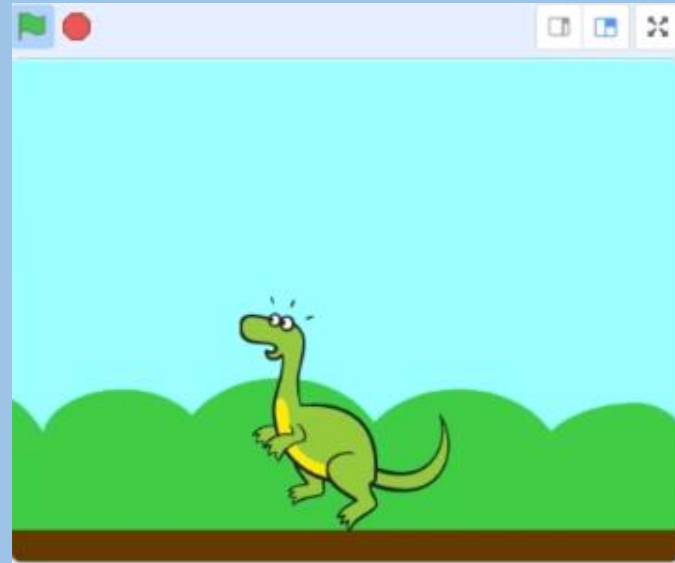
<https://www.bbc.co.uk/bitesize/topics/zkcqn39/articles/zqrq7ty>

## **Real-life dinosaur move game:**

*Spread around the room to play a real-life version of the Scratch dinosaur move game.*

*When you see the green flag get ready to start the game.*

*Look for the keys an adult presses so you know what direction to move in and when to jump.*



# *Class algorithm*

*We will write a class program using your ideas and then act out the real-life version of your game.*

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We are going to play our own dinosaur game. I am going to give you instructions for you to follow, you must follow the algorithm correctly.

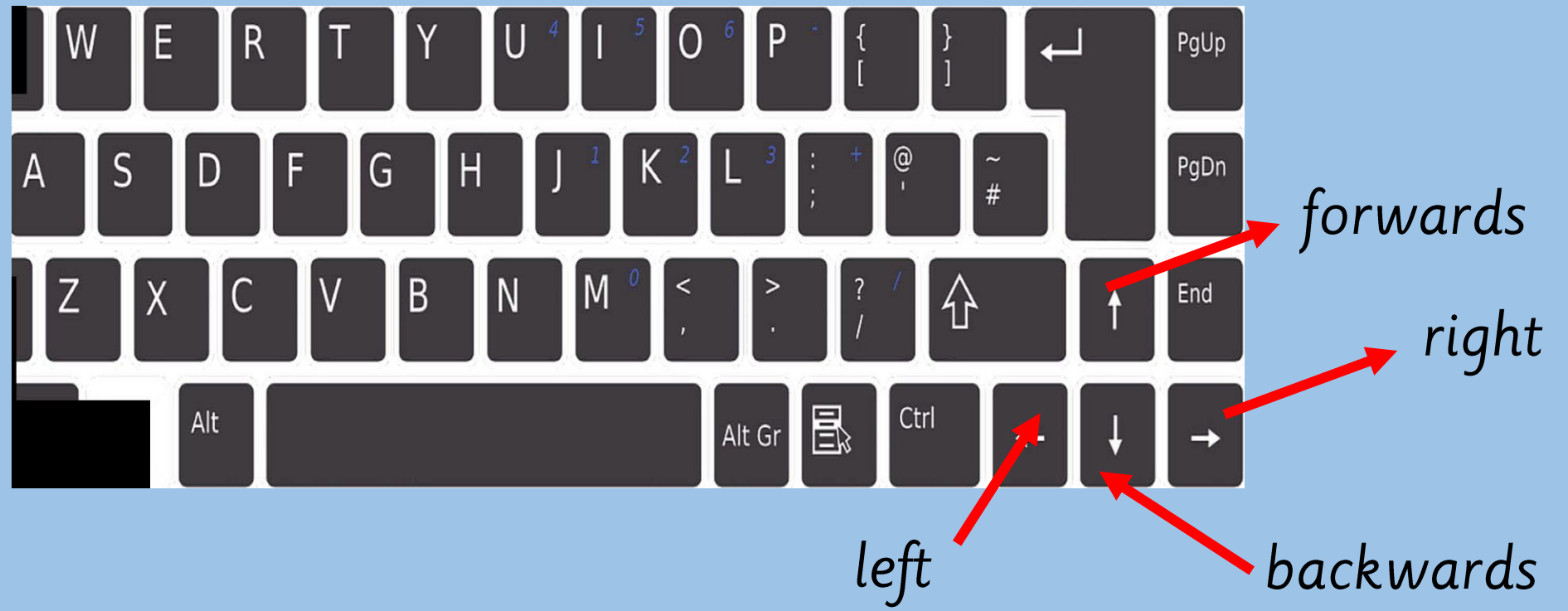
When you see the green flag start the game.



get ready to

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On your table there are dinosaur masks you are going to pretend to be the dinosaur. *Before we start the game have a look the instruction keys that I will be calling out.*







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Now let's begin our game.

At the moment our dinosaur is not doing much, now when I click on the letter R I want you to roar.

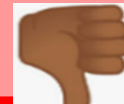
TP:

Has our game improved?

How?

**Self Assessment**

Do you understand what algorithms are?



LQ: Can I decompose a game to predict the algorithms that are used?

Now it is your turn to write more actions for the dinosaur on the writing new program sheet on your table.

Be creative

When you finish we will use some of your ideas and act them out.

### **Self Assessment**

Do you understand what you are being asked to do?

