

What makes a good algorithm?



Range of answers

What makes a good algorithm (instructions)?

- ✓ It has lots and lots of steps.
- ✓ It has clear steps.
- ✓ My friends can follow it.
- ✓ It helps solve a problem or task.
- ✓ The computer likes it.
- ✓ The steps are in the correct order.
- ✓ It takes a long time to complete.



WB Monday 11th March 2024



LQ: Can I write a clear algorithm?

Steps to success



All: I can devise and create algorithms to solve problems.

I can include loops in my algorithms (count controlled).

I can visualise directions from a 2D environment.

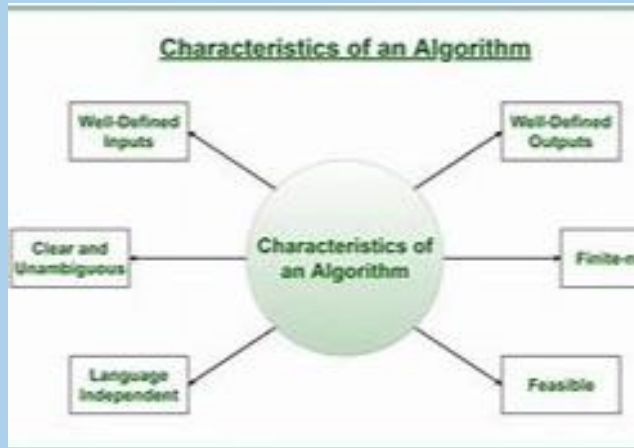
LQ: Can I write a clear algorithm?



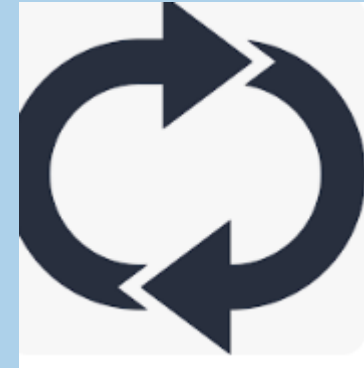
STAR WORDS



Algorithm



Loop



LQ: Can I write a clear algorithm?

Through the maze

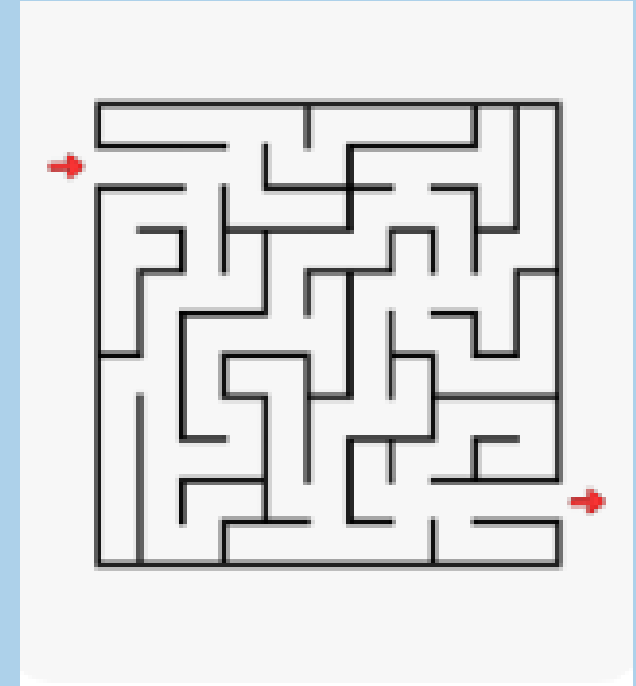
Construction:

With your partner build a maze.

Write or draw an algorithm to navigate through the maze.

Test the algorithm to see if it works.

Can you make it clearer or more precise?



Algorithms in action

Play: google.com/logos/2017/logo17/logo17.html?hl=en

Program the bunny character to move around the map and collect the carrots.



TASK

Write an algorithm to navigate the map so the bunny can eat all the carrots.

Use your cut out blocks, write or draw your algorithm.

Is there a faster way to get through the map?



Self Assessment

Do you understand the features of a keyboard?

