



LQ: Can I write clear algorithms?

Steps to success



All: I can follow instructions given by somebody else.

I can choose a series of words that can be acted out as a sequence.

I can write algorithms with clear instructions.

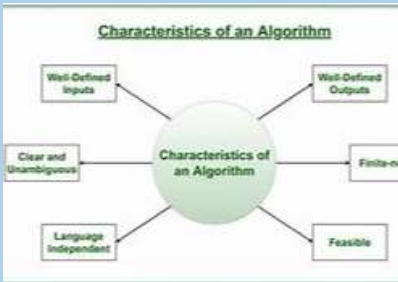
LQ: Can I write clear algorithms?



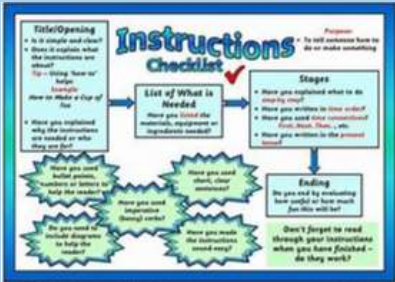
STAR WORDS



Algorithm



Instructions



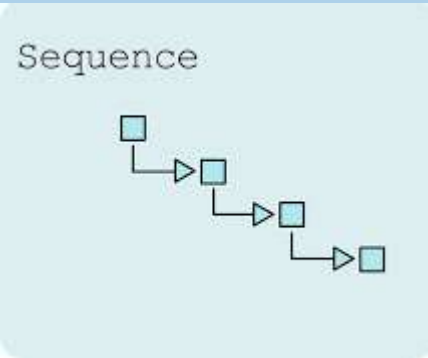
Computers



Clear



Sequence



Program

```
1  how to {
2  program (C#);
3  }
```

LQ: Can I write clear algorithms?

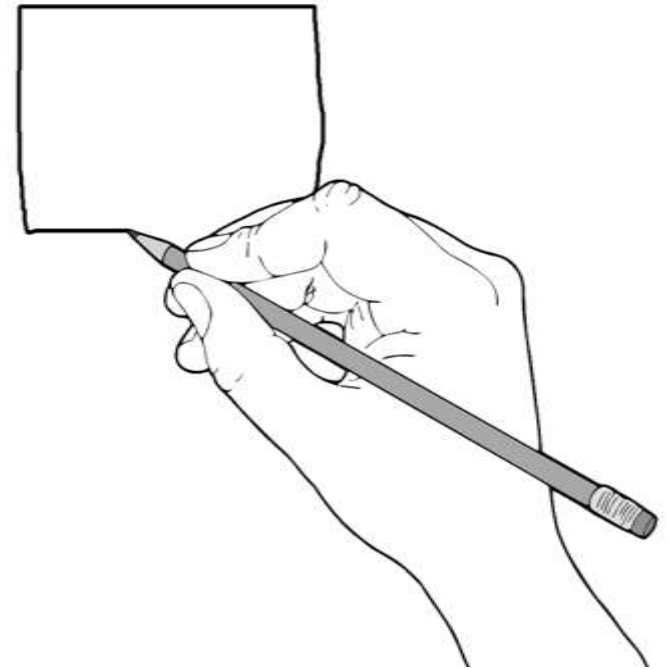
TP:

How do we get computers to do what we want?



Following instructions

Listen carefully and follow the instructions that I give you to create a drawing on your whiteboards.



Words of instruction Task 1

Shortly, your partner will pretend to be a robot. You need to give the robot instructions to move around the room. Only you can talk. The robot cannot talk, they just have to follow the instructions that they are given.

First we will write down some clear and precise instructions that could be used together.

Useful words

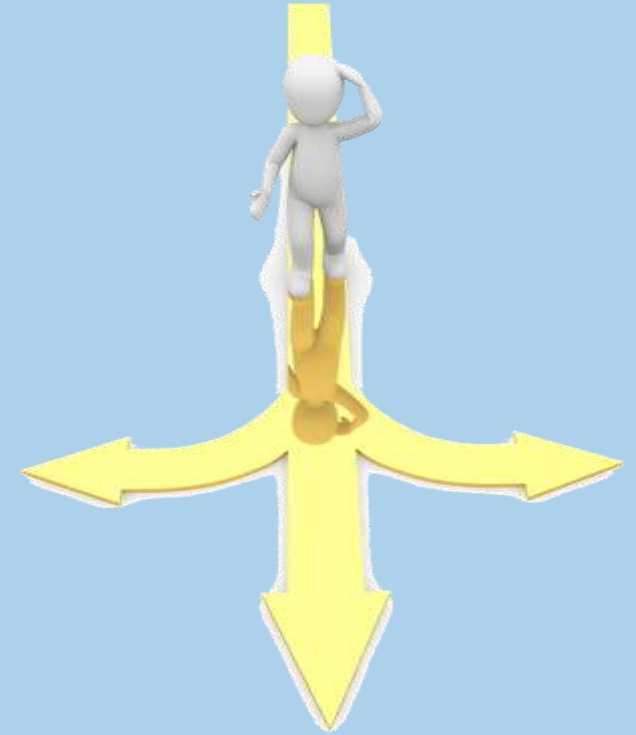
Forwards

Backwards

Turn

Right

Left

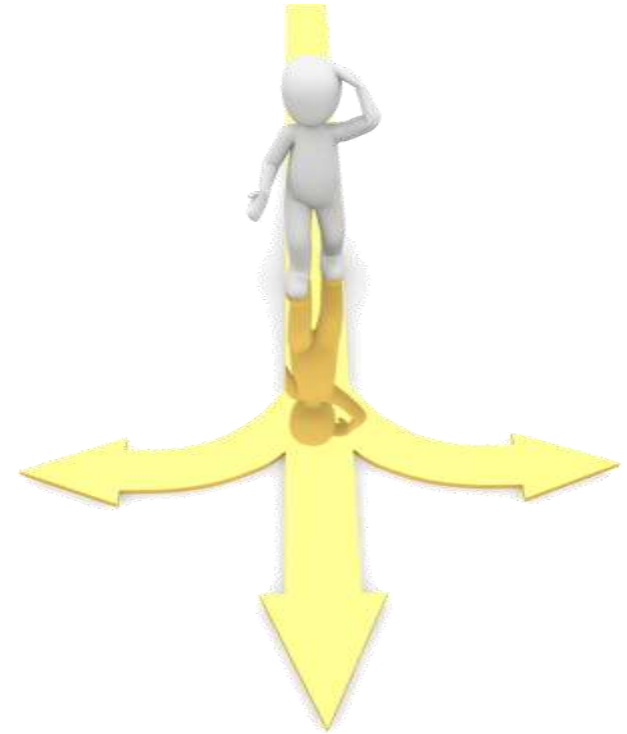


Giving instructions Task 2

You need to direct the robot around the room.

Try doing this using some of the instructions we wrote together.

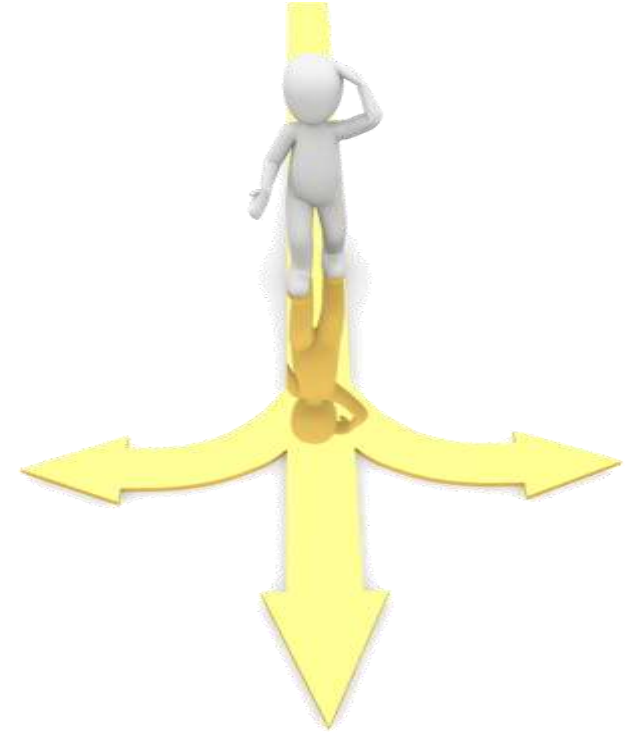
At first, try doing this by giving just one instruction at a time.



Giving a set of instructions Task 3

You need to direct the robot around, but this time, you need to give them two or three instructions at a time.

Say “Go” to tell the robot to run the instructions



Robots follow instructions

Robots have a computer inside. Robots do what we want because they follow instructions. They do not make any choices themselves.

How can you give a robot instructions?

