



Computational Thinking



Computational thinking is a step-by-step process for solving problems.

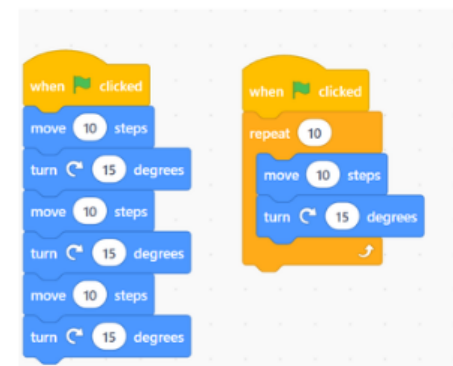
Decomposition

- Break the problem down.
- Which part will you solve first?



Pattern spotting

- Have you seen this before?
- Is the same thing repeating?
- Can we use a loop instead of using the same instructions?



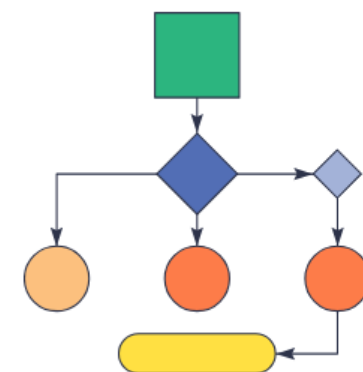
Abstraction

- Which parts of this problem should we focus on?
- Which parts can we ignore?



Algorithm design

- Write down your instructions to solve this problem.
- Instructions can be written as a program.



Debugging

- Observe the results.
- What worked well?
- What needs improving?

