

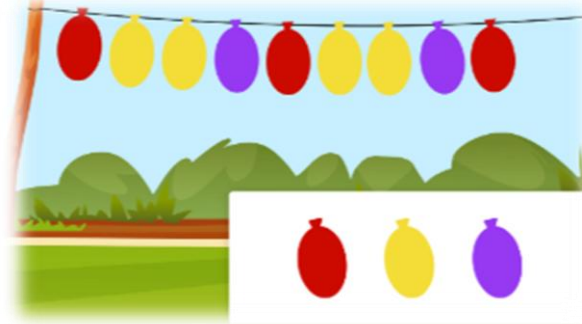
Key Vocabulary

| | |
|------------------------|--|
| abstraction | Identifying the important detail and ignoring irrelevant information. |
| code | A set of instructions written in programming language, to tell a computer what to do. |
| computational thinking | A method of tackling a complex problem, to devise a solution which both computers and humans can understand. |
| decompose | To break something down into smaller chunks. |
| pattern recognition | Identifying similarities and recurrences in data. |
| problem | A matter or situation that needs to be resolved. |
| sequence | A set order or pattern for something to follow. |

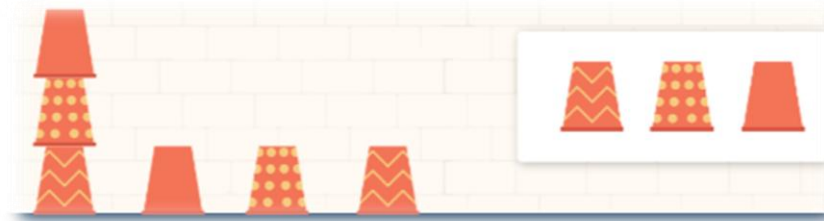
Computational Thinking

We use computational thinking to solve problems. Often, we use one of the following to help solve it:

abstraction decomposition pattern recognition



What would the next balloon in the sequence be? Why?



How would you repeat the sequence of cups?

Data



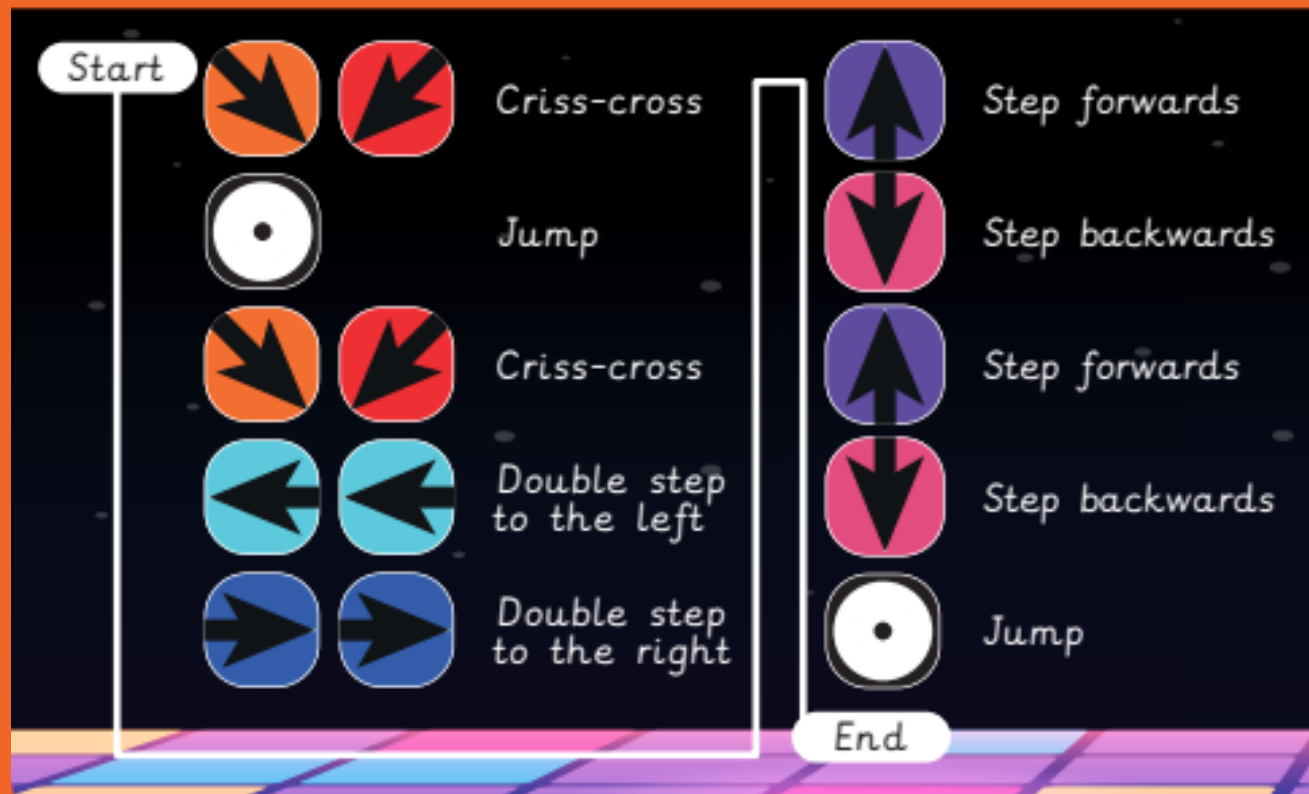
Data (such as dance moves) without any identification, order or sequence would look like this:



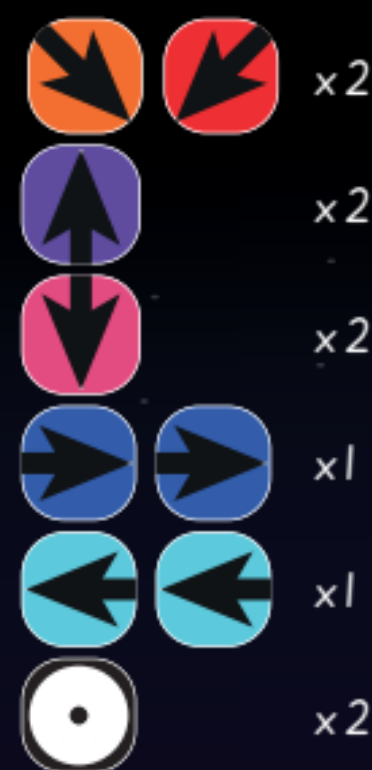
What are the problems with this data?

Dance Move Sequence

Sequence of dance moves:



Decomposition:



Pattern recognition:

