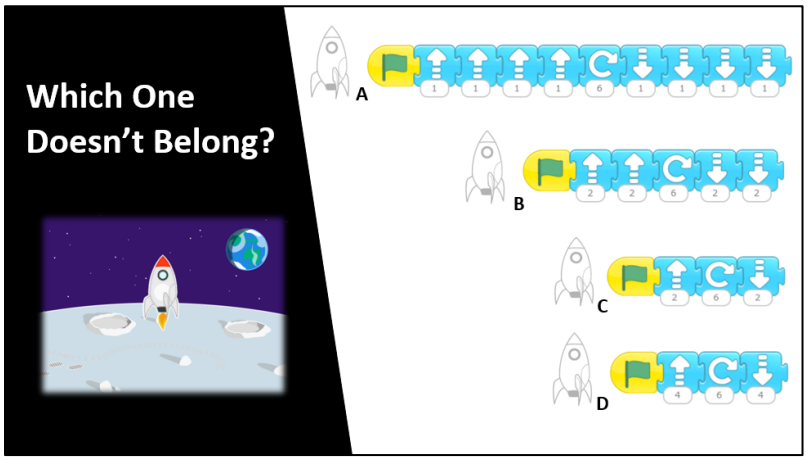
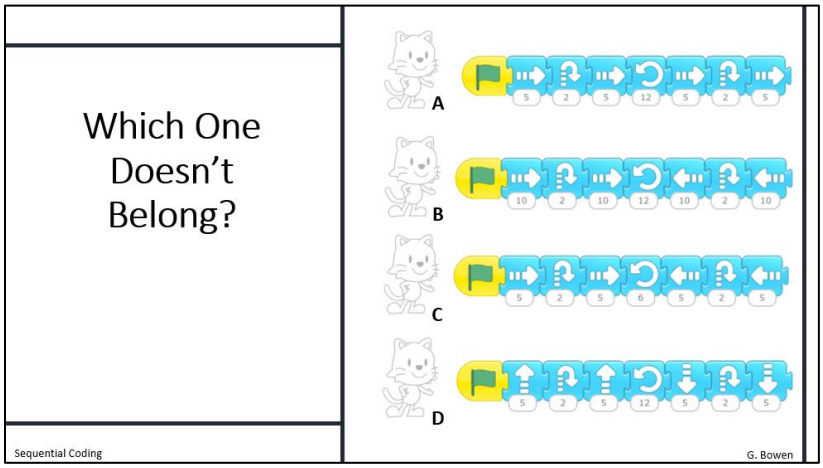
Which one doesn't belong?

Possible student responses



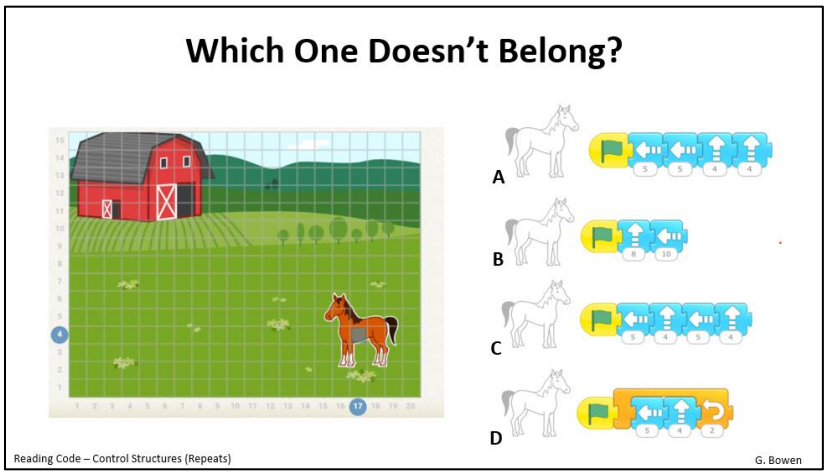
Possible reasons for not belonging:

A – Least efficient
B – Could be more efficient
C – Moves a shorter distance than the others
D – The most efficient way to get further



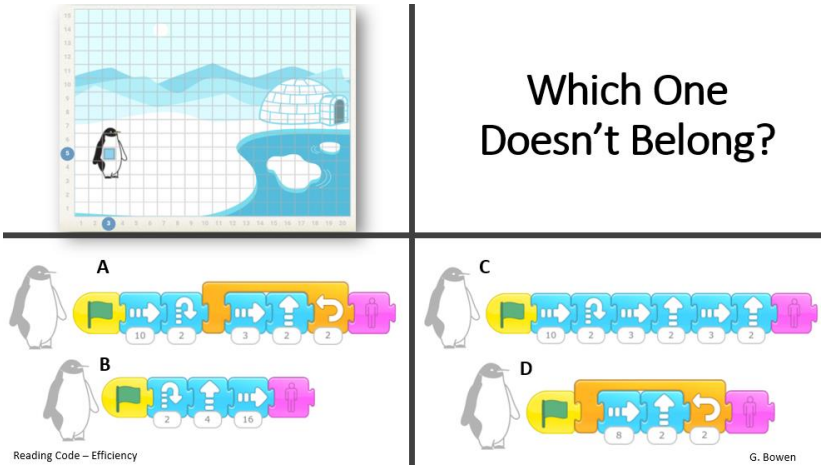
Possible reasons for not belonging:

A – Moves only to the right
B – Moves the furthest
C – Only does a half turn
D – Moves up and down



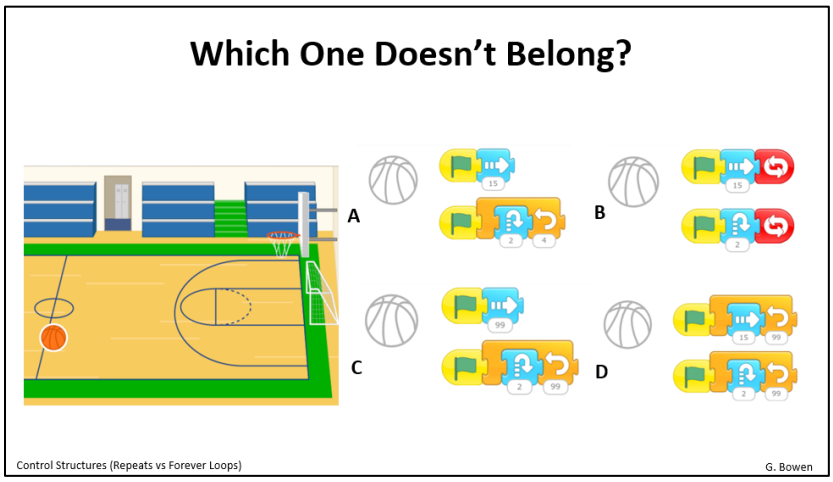
Possible reasons for not belonging

A – Goes left and then up
B – Only one that goes up and then left
C – Alternates between left and up and not efficient
D – Most efficient and uses a repeat



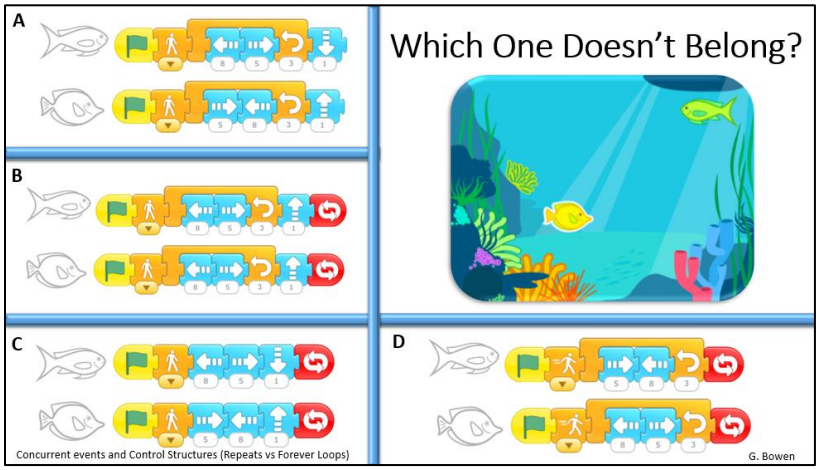
Possible reasons for not belonging

A – Most efficient way through the ice floats
B – Goes through the land, efficient
C – Least efficient way through ice floats
D – Very efficient, no hop



Possible reasons for not belonging:

A – Both will end after about 15 steps
B – Both algorithms will go on forever
C – Will go for a long time but will eventually end, the steps will end before the bounce
D – Both will eventually end after a long time



* Encourage students to take the time to visualize what the movement of the fish will look like, perhaps maybe even act it out.

Reasons for not belonging:

A – Will end, does not repeat forever
B – Both fish are following the same algorithm
C – No repeat, fish will move up and down more quickly
D – No movement up and down, speed is medium