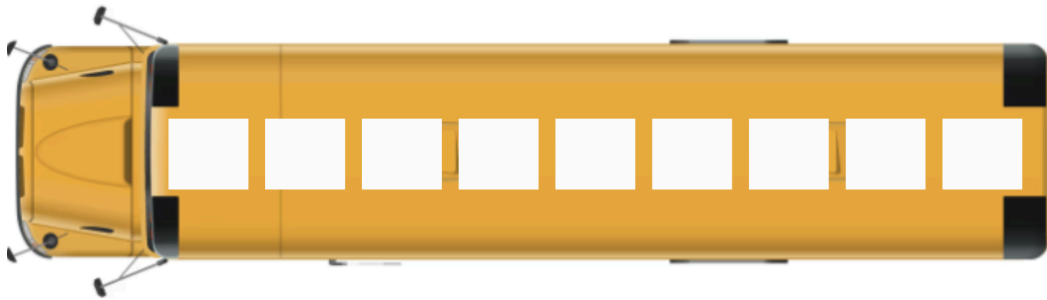


# Data Structures (Array and lists)

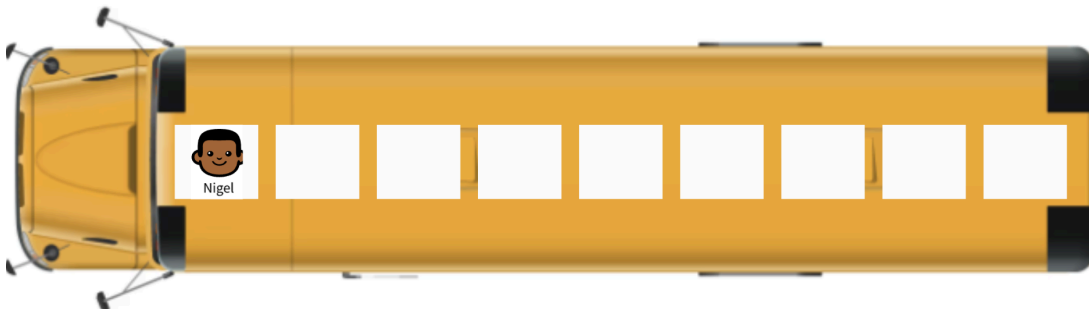
## Class Activity

In this class activity, you are required to manage to pick up students on a school bus with 9 seats

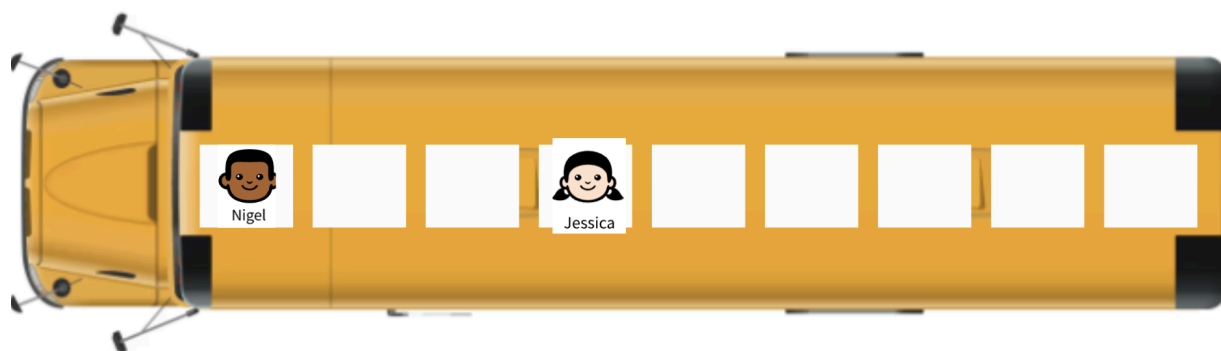


The seats are numbered 0 to 8 and at each stage, students will be required to answer questions.

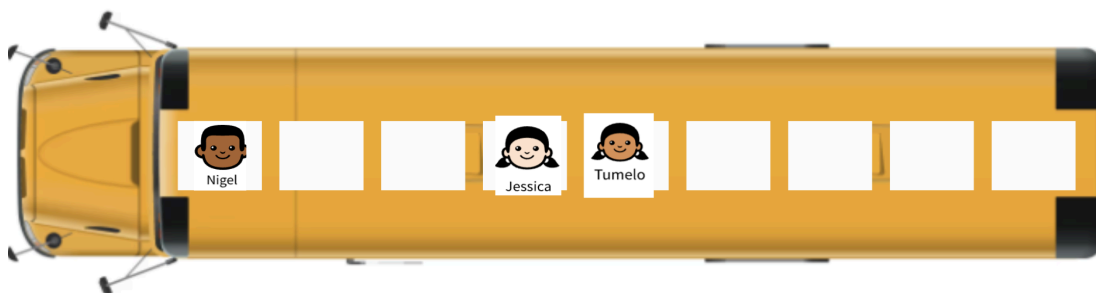
A student Jason enters the bus and sits in the first available seat



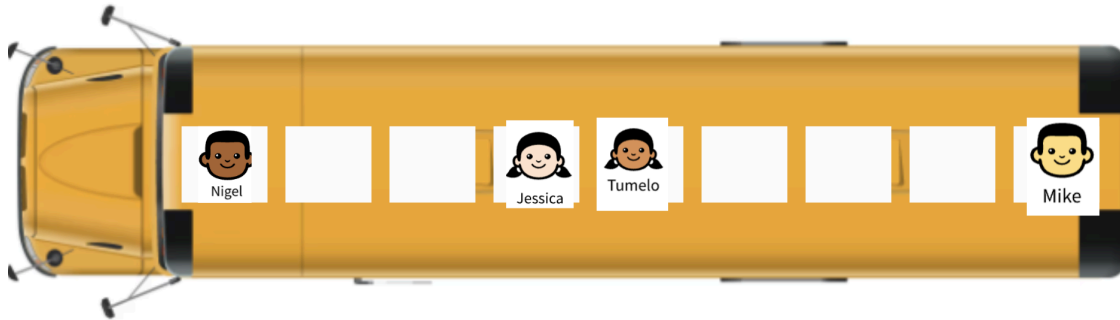
Then Jessica enters the bus



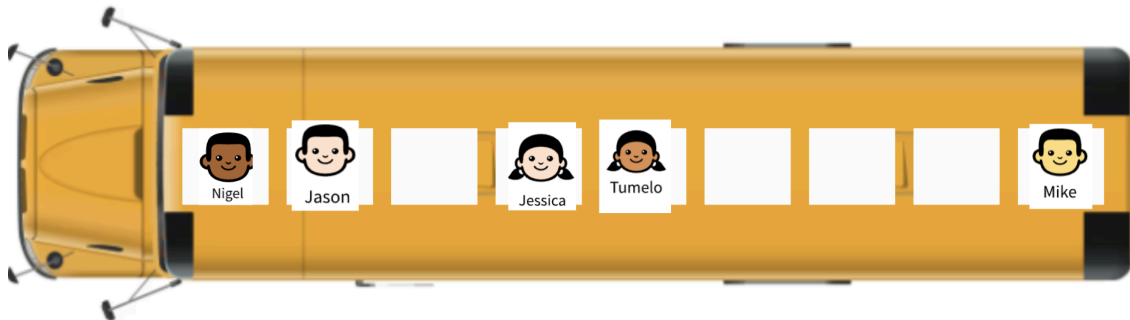
- 1) What position are Nigel and Jessica seated?
- 2) How many positions is Nigel away from Jessica?
- 3) Tumelo wants to sit behind her best Jessica  
What position would this be?



Mike enters the bus and sits at the back of the bus.



Jason enters the bus and sits behind Nigel



5) Jason wants to move to sit near Mike:

- How many seats will he have to pass?
- Which seats are empty between Jason and Mike before Jason moves?
- Which seat will Jason move to?