7.Challenge: Queue vs Stack for Classroom Roll Call

➢ The one that is fair is queue
➢ Result in queue: Students are called in the same order they arrived →
   fair.
➢ Result in stack: Students are called back in the reverse order of arrival →
   unfair.

8.Reflection

• A queue (FIFO) is fair for roll call — the student who arrives first is also called
first.

• A stack (LIFO) is unfair — the student who arrives last is called first, and the
first one has to wait the longest.

• Real-life connection:

✓ Queue → students lining up for food in a Rwandan school; served in
   order of arrival.
✓ Stack → in the process of taking laptop the student came last become
   the first to take it while there were others who have been there for like 3
   hours.

So the best is to use queue for the best of everything.Use a stack when reversal
or undoing is necessary.