

Keep Learning

GRADE 100%

TO PASS 1% or higher

Interview Questions: Stacks and Queues (ungraded)

TOTAL POINTS 3

1.	Queue with two stacks. Implement a queue with two stacks so that each queue operations takes a constant amortized
	number of stack operations.

1 / 1 point

Note: these interview questions are ungraded and purely for your own enrichment. To get a hint, submit a solution.

I dont know



Hint: If you push elements onto a stack and then pop them all, they appear in reverse order. If you repeat this process, they're now back in order.

2. Stack with max. Create a data structure that efficiently supports the stack operations (push and pop) and also a returnthe-maximum operation. Assume the elements are real numbers so that you can compare them.

1 / 1 point

Its so hard



✓ Correct

Hint: Use two stacks, one to store all of the items and a second stack to store the maximums.

3. Java generics. Explain why Java prohibits generic array creation.

1 / 1 point

Ask James



✓ Correct

Hint: to start, you need to understand that Java arrays are covariant but Java generics are not: that is, String[] is a subtype of Object[], but Stack < String > is not a subtype of Stack < Object >.