Interview Questions (optional)

3/3 points earned (100%)

Excellent!

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1/1 points

1.

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

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

good

Thank you for your response.

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.



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

good		
		//

Thank you for your response.

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



1/1 points

3.

Java generics. Explain why Java prohibits generic array creation.

good			
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Thank you for your response.

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 >.