

Interview Questions: Stacks and Queues (ungraded)



Back

Coursera

Practice Assignment



English ▾



Menu

1. **Queue with two stacks.** Implement a queue with two stacks so that each queue

1 point

Graded Assignment

operations takes a constant amortized number of stack operations.

Interview Questions: Stacks and Queues (ungraded)

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

```
import java.util.NoSuchElementException;
import java.util.Stack;

Assignment details
public class StackQueue<Item> {
```

Your answer cannot be more than 10000 characters.

Attempts: Unlimited

Resume

2. **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 real numbers so that you can compare them.

1 point

--

}

Your answer cannot be more than 10000 characters.



Like



Dislike



Report an issue

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

1 point

```
enerics in Java perform type checking at compile time, ensuring that only
the specified type is used. However, during compilation, type
information is erased ("type erasure"), meaning the runtime does not
retain the generic type. This prevents the creation of generic arrays.
```

Your answer cannot be more than 10000 characters.