

Worksheet: Lazy Computation

You are given the following supplier for a lazy list of integers:

```
public static LazyList<Integer> from(int i, int step) {  
    System.out.println("Hi");  
    return cons(i, ()->from(i+step, step));  
}
```

In the following sequence of statements, write how many times will “Hi” be printed out as a side effect of executing that statement:

```
var nats = from(0, 1);  
var evens = from(0, 2);  
var alsoEvens = nats.filter(x -> x % 2 == 0);  
var yetAnotherEvens = nats.map(x -> x * 2);  
var thirdEven = evens.tail().tail().head();  
var thirdEvenAgain = evens.tail().tail().head();  
var fiveEvens = evens.take(5);  
var sumFiveEvens = fiveEvens.foldRight(0, (x, y) -> x + y);
```

