

CSC324: Streams

1. Write a function `s-take` that takes the first `n` elements of a `stream` and produces a list with those `n` elements.

```
(define (s-take n stream)
```

2. Write a function `repeat` that takes an integer `n` and returns the infinite stream where each element is `n`.

```
(define (repeat n)
```

3. Write a function `s-append` that appends two streams `s` and `t`.

```
(define (s-append s t)
```

4. Complete the macro `next!`

```
(define-syntax next!  
  (syntax-rules ()  
    [(next! <g>)
```

```
]))
```