

CSE 341, Racket Streams
May 14, 2014

Programmer 1 : _____

Programmer 2 : _____

(A) Write a Racket function `prime?` which takes a number `n` and returns true (`#t`) if `n` is prime and false (`#f`) otherwise.

(B) Write a Racket function `sfilter` which takes a function `f` and a stream `s` and returns a new stream which produces the elements from `s` for which `f` returns true. This is just the stream equivalent of our old friend `filter` on lists.

(C) Write a Racket function `smap` which takes a function `f` and a stream `s` and returns a new stream which produces the elements from `s` but with `f` applied. This is just the stream equivalent of our old friend `map` on lists.

(D) Turns out, we can't write `fold` for streams. Why?