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

(B) Write a Racket function \texttt{sfilter} which takes a function \texttt{f} and a stream \texttt{s} and returns a new stream which produces the elements from \texttt{s} for which \texttt{f} returns true. This is just the stream equivalent of our old friend \texttt{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?