Stream Sampling

Write a stream sampler that picks a random (representative) sample of size k from a stream of values with unknown and possibly very large length.

As for receiving the data the sampler should work with three kinds of inputs:

- Values piped directly into the PHP process
- Values generated used a good random source within PHP
- Values loaded from http://www.random.org/clients/http/

Example

Given *k*=5 and the following stream of characters as values

THEQUICKBROWNFOXJUMPSOVERTHELAZYDOG

a possible random sample could be

EMETN