#!/usr/bin/perl

use strict;

use warnings;

# Usage ./sampleFastq.pl <fastq r1> <fastq r2> <outFastq r1> <outFastq r2> <prob

 of keeping reads>

# ./sampleFastq.pl <(gunzip -c f.fastq.gz) <(gunzip -c r.fastq.gz) >(gzip -c - >

 f\_sample.fastq.gz) >(gzip -c - > r\_sample.fastq.gz) 0.5

open(FASTQF,$ARGV[0]);

open(FASTQR,$ARGV[1]);

open(FASTQOUTF,">".$ARGV[2]);

open(FASTQOUTR,">".$ARGV[3]);

my $proba = $ARGV[4];

my $line1;

my $line2;

my $nbLines = 1;

my $random;

my $fqRecord1;

my $fqRecord2;

while($line1=<FASTQF>){

 $line2=<FASTQR>;

 $fqRecord1.=$line1;

 $fqRecord2.=$line2;

 if($nbLines%4==0){

 $random = rand(1);

 if($random <= $proba){

 print FASTQOUTF $fqRecord1;

 print FASTQOUTR $fqRecord2;

 }

 $fqRecord1="";

 $fqRecord2="";

 }

 $nbLines++;

}

close(FASTQOUTR);

close(FASTQOUTF);

close(FASTQR);

close(FASTQF);