Learning Perl

Exercises 4

https://github.com/onevcat/LearningPerl

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ソースコード:
#! usr/bin/perl
use strict;
#Calculate total of several numbers.
sub total
   my $sum;
   foreach (@_)
      $sum += $_;
   $sum;
my @fred = qw \{ 13579 \};
my $fred_total = total(@fred);
print "The total of \@fred is $fred_total.\n";
print "Enter some numbers on seperate lines: ";
my $user_total = total(<STDIN>);
print "The total of those numbers is $user_total
```

```
Chapter4 — bash — 64×18

onev:Chapter4 onevcat$ ./ex4-1.pl
The total of @fred is 25.
Enter some numbers on seperate lines: 1

3
4
5
The total of those numbers is 15.
onev:Chapter4 onevcat$
```

```
1+3+5+7+9 = 25
1+2+3+4+5 = 15
```

```
ソースコード:
#! /usr/bin/perl
use strict;
#Calculate total of several numbers.
sub total
   my $sum;
   foreach (@_)
     $sum += $_;
   $sum;
my @numbers = (1..1000);
my $sum = total(@numbers);
print "Sum of $numbers[0] to $numbers[-1] is:
```

```
Chapter4 — bash — 64×18

onev:Chapter4 onevcat$ ./ex4-2.pl

Sum of 1 to 1000 is: 500500

onev:Chapter4 onevcat$ 

onev:Chapter4 onevcat$
```

```
ソースコード(大切な部分):
#! /usr/bin/perl
use strict;
#Calculate total of several numbers.
sub total {
   my $sum;
    foreach (@_) {
       sum += _;
    $sum;
#Calculate average of several numbers.
sub average {
    #In case the 0-divided exceptions.
   if (@_) {
       #Average = Total / Count
       my $average = total(@_) / @_;
sub above_average{
    my $average = average(@_);
    my @numbersAboveAverage;
   foreach (@_) {
       if ($_ > $average) {
           push @numbersAboveAverage, $_
    @numbersAboveAverage;
```

```
Chapter4 — bash — 64×18

onev:Chapter4 onevcat$ ./ex4-3.pl

@fred is 6 7 8 9 10

(Should be 6 7 8 9 10)

@barney is 100

(Should be just 100)

onev:Chapter4 onevcat$
```

```
ソースコード:
#! /usr/bin/perl
use strict;
use 5.010;
sub greet
   state $lastPerson;
   my $currentPerson = $_[0];
   if ($lastPerson)
      print "Hi $currentPerson! $lastPerson is
also here!\n";
   else
      print "Hi $currentPerson! You are the first
   $lastPerson = $currentPerson;
greet("Fred");
greet("Barney");
```

```
○ ○ Chapter4 — bash — 64×18

onev:Chapter4 onevcat$ ./ex4-4.pl

Hi Fred! You are the first one here!

Hi Barney! Fred is also here!

onev:Chapter4 onevcat$
```

stateは問題のキーだ。

```
ソースコード:
#! /usr/bin/perl
use strict;
use 5.010;
sub greet{
   state @persons;
   my $currentPerson = $_[0];
   if (@persons) {
      print "Hi $currentPerson! I've seen:
@persons\n";
   } else {
      print "Hi $currentPerson! You are the first
one here!\n";
   push @persons, $currentPerson;
greet("Fred");
greet("Barney");
greet("Wilma");
greet("Betty");
```

```
Chapter4 — bash — 64×18

onev:Chapter4 onevcat$ ./ex4-5.pl

Hi Fred! You are the first one here!

Hi Barney! I've seen: Fred

Hi Wilma! I've seen: Fred Barney

Hi Betty! I've seen: Fred Barney Wilma

onev:Chapter4 onevcat$
```