

# Learning Perl

Exercises 10

<https://github.com/onevc/LearningPerl>

王巍

# 問題 1

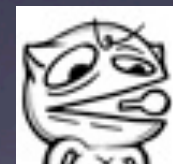
## ソースコード:

```
#!/usr/bin/perl
use strict;

my $number = int(1+rand 100);
print "Guess a number from 1 to 100: ";
my $input;
while ($input = <STDIN>) {
    chomp $input;
    if ($input =~ /quit|exit|\A\s*\z/i) {
        ### Exiting...
        last;
    }
    if ($input < $number) {
        print "Too low\nTry again: ";
        next;
    }
    elsif ($input > $number) {
        print "Too high\nTry again: ";
        next;
    }
    else {
        print "You are right, the answer is $number\n";
        last;
    }
}
```

```
Chapter10 — bash — 64x18
onev:Chapter10 onevc$ ./ex10-1.pl
Guess a number from 1 to 100: 50
Too high
Try again: 25
Too low
Try again: 37
Too low
Try again: 44
Too high
Try again: 40
Too high
Try again: 38
Too low
Try again: 39
You are right, the answer is 39
onev:Chapter10 onevc$
```

七つ，これは一般水準で  
残念です

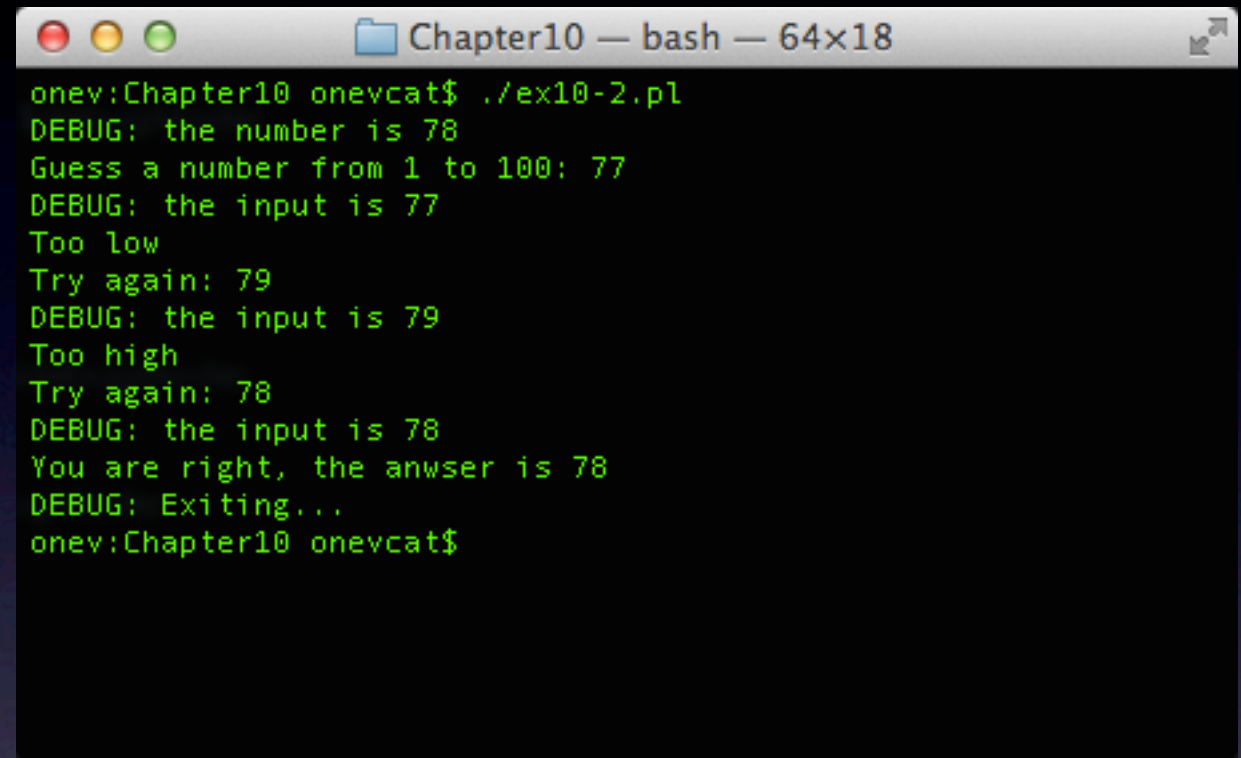


# 問題 2

## ソースコード:

```
#!/usr/bin/perl
use strict;
use 5.010;

my $debugMode = $ENV{DEBUG} // 1;
my $number = int(1+rand 100);
print "DEBUG: the number is $number\n" if $debugMode;
print "Guess a number from 1 to 100: ";
my $input;
while ($input = <STDIN>) {
    chomp $input;
    print "DEBUG: the input is $input\n" if $debugMode;
    if ($input =~ /quit|exit|\A\s*\z/i) {
        ### Exiting...
        print "DEBUG: Exiting...\n" if $debugMode;
        last;
    }
    if ($input < $number) {
        print "Too low\nTry again: ";
        next;
    }
    elsif ($input > $number) {
        print "Too high\nTry again: ";
        next;
    }
    else {
        print "You are right, the answer is $number\n";
        print "DEBUG: Exiting...\n" if $debugMode;
        last;
    }
}
```



```
Chapter10 — bash — 64x18
onev:Chapter10 onevc$ ./ex10-2.pl
DEBUG: the number is 78
Guess a number from 1 to 100: 77
DEBUG: the input is 77
Too low
Try again: 79
DEBUG: the input is 79
Too high
Try again: 78
DEBUG: the input is 78
You are right, the answer is 78
DEBUG: Exiting...
onev:Chapter10 onevc$
```



# 問題 3

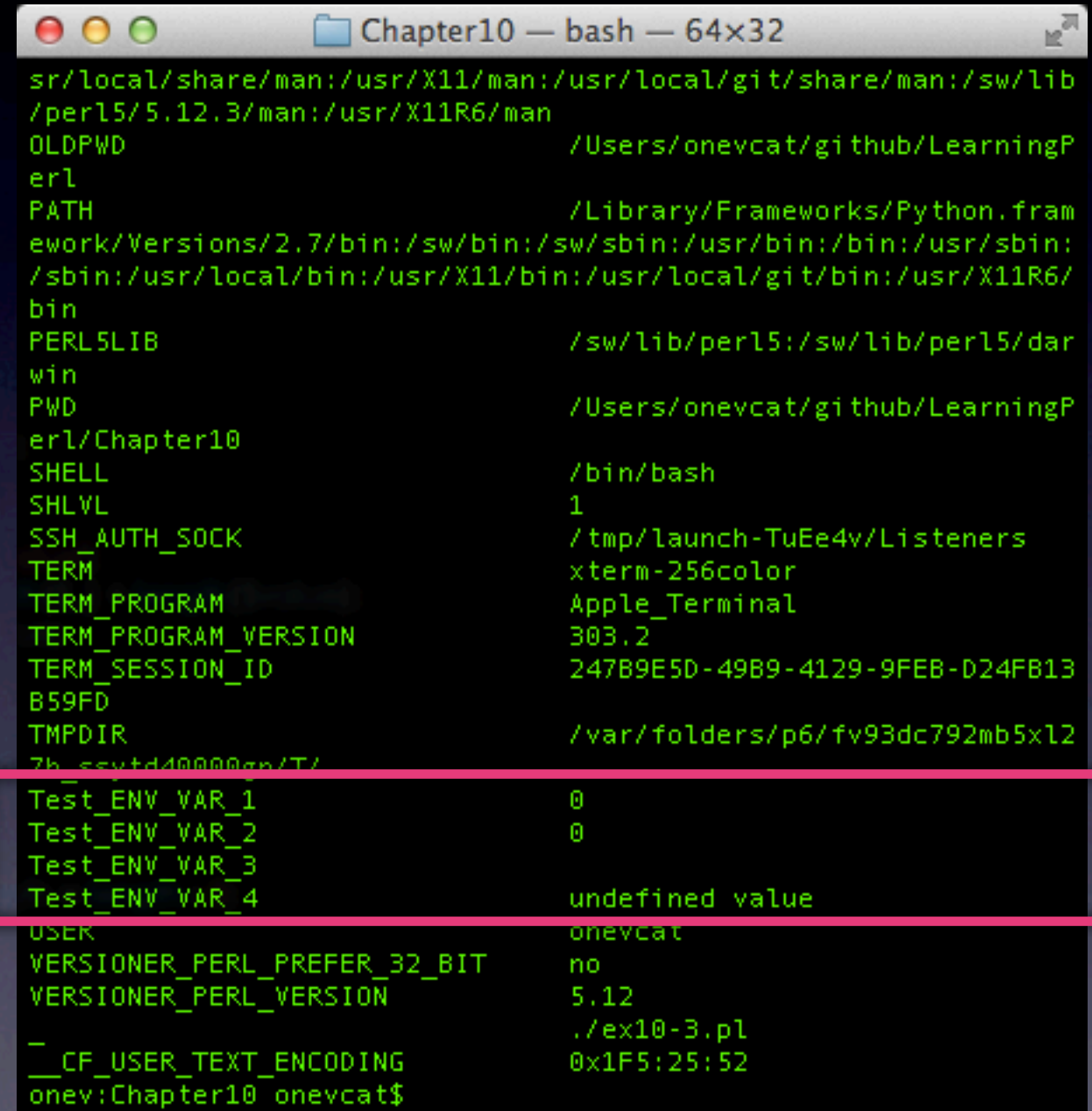
## ソースコード:

```
#!/usr/bin/perl
use strict;
use 5.010;

#Test Environment Variables
$ENV{Test_ENV_VAR_1} = 0;
$ENV{Test_ENV_VAR_2} = "0";
$ENV{Test_ENV_VAR_3} = "";
$ENV{Test_ENV_VAR_4} = undef;

my @keys = sort keys %ENV;
my $basePosition = maxLength(@keys) + 5;
my $valuePosition;
foreach (@keys) {
    my $value = $ENV{$_} // "undefined value";
    $valuePosition = $basePosition - length($_) +
length($value);
    printf "%s%${valuePosition}s\n", $_, $value;
}

sub maxLength
{
    my $maxLength;
    foreach (@_) {
        length > $maxLength ? $maxLength = length : 0;
    }
    $maxLength;
}
```



```
Chapter10 — bash — 64x32
sr/local/share/man:/usr/X11/man:/usr/local/git/share/man:/sw/lib
/perl5/5.12.3/man:/usr/X11R6/man
OLDPWD /Users/onevc/learningPerl
erl
PATH /Library/Frameworks/Python.framework/Versions/2.7/bin:/sw/bin:/sw/sbin:/usr/bin:/bin:/usr/sbin:/sbin:/usr/local/bin:/usr/X11/bin:/usr/local/git/bin:/usr/X11R6/bin
PERL5LIB /sw/lib/perl5:/sw/lib/perl5/darwin
PWD /Users/onevc/learningPerl/Chapter10
SHELL /bin/bash
SHLVL 1
SSH_AUTH_SOCK /tmp/launch-TuEe4v/Listeners
TERM xterm-256color
TERM_PROGRAM Apple_Terminal
TERM_PROGRAM_VERSION 303.2
TERM_SESSION_ID 247B9E5D-49B9-4129-9FEB-D24FB13B59FD
TMPDIR /var/folders/p6/fv93dc792mb5x127h_ssytd40000gn/T/
Test_ENV_VAR_1 0
Test_ENV_VAR_2 0
Test_ENV_VAR_3 undefined value
Test_ENV_VAR_4 undefined value
USER onevc
VERSIONER_PERL_PREFER_32_BIT no
VERSIONER_PERL_VERSION 5.12
_ CF_USER_TEXT_ENCODING 0x1F5:25:52
onevc:Chapter10 onevc$
```