

CIS166 - Programming in Perl

Fall 2004 Pop Quiz #1

1) What is the most basic data type in Perl?

- ☐ Integer
- ☐ Array
- ☐ Real
- ☒ Scalar
- ☒ String
- ☐ Hash
- ☐ Reference

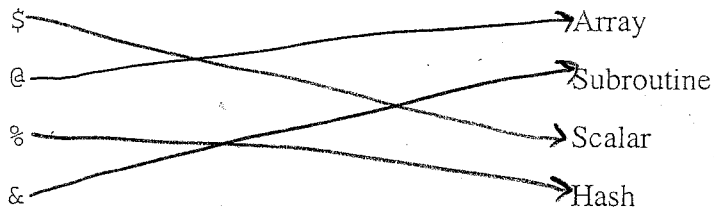
2) What are types of Literal Strings? (Select more than one.)

- ☒ Single-quoted
- ☐ Double-quoted
- ☒ All of the above.

3) You can do variable interpolation into:

- ☐ Single-quoted strings.
- ☒ Double-quoted strings.
- ☐ None of the above.

4) Match the variable meta-character to its data type by drawing a line between them:



Use the following program to answer the next three questions. **DO NOT ENTER THE PROGRAM AND RUN IT!:**

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

my $hash = {
    May => 5,
    Me => 'Mark',
    Mo => 'stooge',
    Moo => 'Cow'
};

foreach my $key (sort keys %$hash) {
    print "$key:$hash->{$key} ";
}
```

5) In the foreach line, the %\$hash is evaluated in what context?

- ☒ Hash Context
- ☐ Scalar Context
- ☒ LIST or Array Context
- ☐ Expression Context

6) What will be the output of the program

- ☒ May:5 Me:Mark Mo:stooge Moo:Cow
- ☐ May:5 Me:Mark Moo:Cow Mo:stooge
- ☐ Mo:stooge Moo:Cow Me:Mark May:5
- ☒ Indeterminate because we don't know the order the keys will come out of the hash.
- ☐ There is an error in the program, and no output will be given.

7) The value in \$hash is:

- ☐ a Scalar value.
- ☐ an Array reference.
- ☐ a Hash table.
- ☒ a Hash reference.

8) Is your name on the first page of this quiz? (0 points!)

- ☒ Yes (This better be the correct answer!)
☐ No

9) Write a regular expression that will match a positive or negative number including scientific format, i.e.: -3, or 2.5, or 2.759e-27, etc.

`m/^([+ -]? (? = \d | \. \d) \d * (\. \d *)? ([E e] ([+ -]? \d +))?)$/`

10) Variables are:

- ☒ By default, local to the scope where they are first used.
☒ global by default unless modified with a `my()`.
☐ local or global by how they are named.
☐ None of the above.

11) The arguments to a user defined subroutine are defined:

- ☐ By explicitly defining the arguments by name in the subroutine definition.
☒ in the `@_` array.
☐ in the variables `$1`, `$2`, `$3`, etc.
☐ You must pass variables using locally defined name using `my()`.