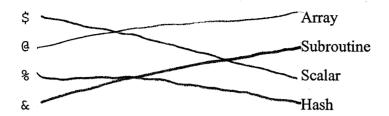
94/100

Chrs Jon Fall 2004 MIDTERM

CIS166 - Programming in Perl Fall 2004 MIDTERM

| 1) | What is the most basic data type in Perl? Integer Array Real Scalar String Hash Reference |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2) | An algorithm is: language independent. a set of instructions to solve a problem. all of the above. none of the above. |
| 3) | What are the phases of a software development cycle? (Select more that one.) Design Evaluation |
| | Coding Test and debug Specification Maintenance |
| 4) | What are the types of Literal Strings? (Select more that one.) Single-quoted Double-quoted Word-quoted All of the above. |
| 5) | You can do variable interpolation into: Single-quoted strings. |
| 1 | Double-quoted strings. Word-quoted strings. None of the above. |
| 6) | An expression is: two or operators that perform a calculation. a meaningful and eloquent manner of speaking. something that evaluates to a value. a function call. |

7) Match the variable meta-character to it's data type by drawing a line between them:



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

| | #!/usr/bin/perl -w |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | use strict; |
| | <pre>my %hash = (May => 5, Me => 'Mark', Mo => 'stooge', Moo => 'Cow'</pre> |
| |); |
| | foreach my \$key (reverse keys \$hash) { print "\$key:\$hash{\$key} "; } Mey |
| 8) | In the foreach line, the % thash is evaluated in what context? ☐ Hash Context ☐ Scalar Context ☐ LIST Context ☐ Expression Context |
| 9) | 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. |
| 10) | The value in %hash is: a Scalar value. an Array reference. a Hash table. a Hash reference. None of the above |

| 11) | A programming is: □ about writing code. □ about creating algorithms to solving problems and translating the algorithms into instructions that computer can perform. □ about developing large programs. |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | none of the above. |
| 12) | Is you name on the first page of this test? (Worth 0 points) Yes (This better be the correct answer!) No |
| 13) | Write a regular expression that will match a positive or negative integer, i.e: -3 , or 2, or 10, etc. |
| | 10, etc. $(+2)$ $/-?d+/$ |
| 14) | A statement modifier is: a option that can follow a match or substitution operator. |
| | a program that converts english sentences from past tense to present tense. a control structure that can be appended to a single statement. a command line option to the Perl executable itself, that modifies the behavior of the executing script. |
| 15) | Variables are: □ by default, local to the scope were they are first used. □ global by default unless modified with a my (). □ local or global by how they are named. □ None of the above. |
| 16) | The argument 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(). |
| 17) | Which regular expression will match a Perl Hash variable name? /%\b.+\b/ /%(\w+?)/ /%[A-Za-z_]\w*/ -/%/ |

18) If you wanted to find the size of a file, you would:

] \$size = size(\$filename);

open(FILENAME, \$filename); \$size = size(FILENAME);

\$size = -s \$filename;

All of the above.

19) What module would you use to process command line options that are single characters

(-a, -b, -c, etc.)

Getopt :: Std

20) How would you include a module into your program?

linclude 'module';

vse module;

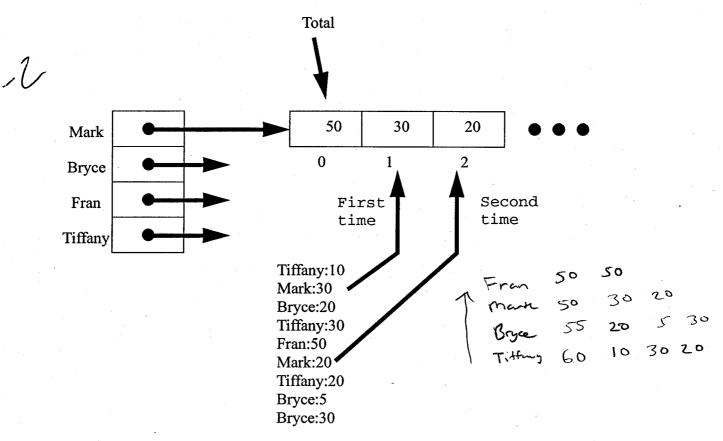
Trequire 'module'

all of the above.

21) Write a program that: (Worth 16 Points)

A Uses the DATA file handle to read the following data into a complex data structure that

looks like:



B Print out the results, starting with the highest total, like:

Mark - Total=50 Each: 30, 20