

Questions for Ruby

Category: Strings - (382 questions)	
Function of: FileUtils.mkdir_p	Creates a directory and all its parent directories. For example, FileUtils.mkdir_p '/usr/local/lib/ruby' causes to make following directories, if it does not exist. * /usr * /usr/local * /usr/local/lib * /usr/local/lib/ruby You can pass several directories at a time in a list.
Ruby: How do you find the length of a string in bytes	string.length
Ruby: How do you close a file handle that has been opened for IO	file_handle.close
Ruby: What does the following code do: File.join("usr", "mail", "gumby")	Returns a new string formed by joining the strings using File::SEPARATOR. "usr/mail/gumby"
Ruby: How do you count the occurrences of 'i' in the string	string.count('i')
Ruby: What happens when you add a require statement such as:require 'my_code.rb'	It adds the code from the required file to the location of require statement.Also runs any code that is not in functions or class statements
Ruby: what does the code: File.unlink("file") do?	deletes the "file"
Ruby: How do you do a variable substitution in a string	Use double quotes around string then put variable name inside hash and curly brackets "some string #{var_name}"
Ruby: Command line utility to produce documentation from program comments	rdoc
Ruby: what is the "here document" syntax to allow long multiline strings	use a double << to tell computer where to end the string<<end_of_poemsome textsomextend_of_poem
Ruby: How do you do string concatenation	+ "cow" + "boy" = "cowboy"
Ruby: Syntax to create an instance of class B which is defined inside A module	b = A::B.new
Ruby: how do you reverse a string	s.reverse

How do you loop 3 times	<pre><% 3.times do end %></pre>
Ruby: What does the keyword self refer to at the top level of a program	the keyword main
Ruby: What is the difference between "Three little words".split(/\s+/) and "Three little words".split(/(\s+)/) - the \s is in parenthesis in second	<pre>.split(/\s+/) => ["Three", "little", "words"] .split(/(\s+)/) => ["Three", " ", "little", " ", "words"]</pre> <p>the parenthesis includes the separators into array elements on the split.</p>
Ruby: Method to return a list of all files in current directory	@files = Dir.glob('*')
How does Ruby handle the .each operator when used on a string	It iterates over every line not every character or word
Ruby: How do you create an empty array	@array_var = []
Ruby: String iterator to iterate on every character in string	.each_byte
Ruby:: Numeric operator that returns the symbol whose integer value is var	var.to_sym
Ruby: How does the iterator sort_by work	<p>You show how to treat an item in the block and it does it to all the items and sorts based on the operationex: ["5", "8", "1", "11"].sort_by { c c.to_i }</p>
Ruby: Iterator that sorts an array based on block of code	.sort
Ruby: Where does an object's singleton methods live?	In the object's singleton class which every object has
Ruby: Hash iterator that will call block with each value	each_value
Ruby: What is an object's singleton class?	it is an exclusive collection of methods that are tailor made for that object and not shared between other objects
Ruby: What is the klass pointer every object has	points back to the class definition code so method code can be found
What is the following syntax used for: class << object_name #code end	to create a singleton method for object

Ruby: Method to return the last member or last argument members of an array	.last
What is the following syntax doing: class MyClass class << self def some_method end	Defining a singleton method for the class that is accesses by MyClass.some_method
Ruby: Function of Binding class	encapsulates the execution context at some particular place in the code
Ruby: How do you add a module's code to an individual object	.extend method
Ruby: What were the bit operators for numbers	~ var - invert bitsvar numeric - or bitsvar & numeric - and bitsvar ^ numeric - exclusive orvar << numeric - leftshift numeric bitsvar >> numeric- rightshift numeric bits
Ruby: Method that gives a list of classes and modules in the inheritance heirarchy of any module or class	.ancestor
Ruby: Iterator method that passes collection to block and returns true if block never returns nil or false	.all?
Ruby: Method that is the object instance equivalent of eval call	instance_eval
Ruby: Method to return the index of first object in array that is equal to argument	.index(object)
Ruby: Class method that puts you inside the class definition body dynamically	class_eval method
Method to do a strict conversion to an Integer object	to_int
Ruby: Technique for creating a method dynamically on an object instance where the outer-scope variable is put into the instance method	define_method
Method to do a strict conversion to an IO object	to_io
If you have a Proc object (procedure object) how do you execute the block of code it represents	.call method
Ruby: How can you concatenate 2 arrays	+ operator array1 + array2

Ruby: What is the difference between a method created with Proc.new versus lambda function	A return statement within code created by lamda returns from the lambdaA return statement within code created by Proc.new returns from the surrounding method
Ruby: Delete a named directory	Dir.delete
Ruby: What is the keyword proc an alias for	lamda
Ruby: Method to do a strict conversion to a method call	to_proc
Ruby: How can you grab a reference to a method of a class	.method(:method_name)the parameter to method can be a string or symbol of actual name of method you want
What does array method arr.pack method do	packs the contents of arr into a binary sequence based on argument directives
Ruby: How can you move a method call from one object instance to another	using .unbind to remove from one objectusing .bind to add to another object
Ruby: Grab an array of all filenames in a given directory	Dir.entries(dirname)
Ruby: How can you grab a reference to a class method for using with using .bind and .unbind on an instance object	class_name.instance_method
Ruby: how do you change the current working directory	Dir.chdir
Ruby: How can you intercept calls to methods that are not defined on a class	create a method_missing method
Ruby: How can you determine if object can use a certain operator/method	.respond_to(:operator)
Ruby: What is the difference between to_s and to_str	to_s is used when an object has a reasonable string representation to_str is for strict conversion, you use it if your object can naturally be used every place a string could be used.
Ruby: Hook to run code when a module is included into a class	define a Module#included block - will be run when module is first included in a class
Hook to run code when a class is first inherited by another class	create a Class#inherited block
Ruby: Difference between to_i and to_int	to_i - to grab an integer representationto_int - to show object can be used as an integer

Ruby: callback to run code when a module constant is reference and it doesn't exist	define Module#constant_missing method
Method to do a strict conversion to an array object	to_ary
Ruby: How do you make a helper available to the views of a controller that is in addition to the default helper controllername_helper.rb file	at the top of the controller below the class definition puthelper :filethe file should be the name before the _helper.rb text
Ruby: method to do a strict conversion to a hash object	to_hash
Ruby: What is the function of coerce method	it is called during arithmetic operations to produce an array of both the first and second number involved in the array. It converts them both to float, integer, etc. so that the operation occurs on the same type must be provided for objects that are going to participate in math operations
Ruby: How can you dynamically add a module to an object	.extend method
Ruby: How can you build a class inline for a particular object	class << object_name
Ruby: How do you define accessors for reading class instance variables	class self attr_reader end
Ruby: All class names (built in and user created) have a corresponding _____	global constant with the same name as the class
Ruby: method to evaluate a string as an executable expression	eval
What global variable controls Ruby's level of paranoia	\$SAFE
Ruby: How can you see if an object is tainted	.tainted? method
Ruby: How can you force any object to be tainted	.taint
Ruby: How can you remove the taint from an object	.untaint
Ruby: How can you traverse all the living objects in your program	ObjectSpace.each_object
Ruby: Query an object to see if it will act like a type	.kind_of?

Get a list of all the methods to which an object will respond	<code>.methods</code>
Ruby: Get the parent of any particular class	<code>.superclass</code> method
Ruby: Ask an object to execute a method called the same name as the command string	<code>.send(command_string)</code>
Ruby: If you have an method object (reference to method code) how can you get it to execute	<code>.call</code>
Syntax to do a set intersection between 2 arrays	<code>operator array1 array2</code>
Ruby: Syntax to create a new array that is a certain number of duplicates of original	<code>* operator[1, 2, 3] * 3[1, 2, 3, 1, 2, 3, 1, 2, 3]</code>
Ruby: How can you do set difference between arrays	<code>array1 - array2</code> which produces a new array that is a copy of array1 minus any items that also appear in array2
Ruby: How can you do set union with arrays	<code> operator array1 array2</code>
Ruby: What is the <code>.assoc</code> method do in an array	searches through an array whose elements are also arrays compares the first element of each sub-array for a match and returns first match
Syntax to get an element from an array at a certain index	<code>arr[index]</code> or <code>arr.at(index)</code> the at is faster
Ruby: Remove all elements from an array	<code>.clear</code>
Ruby: Array iterator that invokes a block for each element and builds new array with the result	<code>.collect</code> or <code>.map</code>
Removes nil values from array	<code>.compact</code>
Ruby: Concatenate arrays together	<code>array1 + array2</code> or <code>array1.concat(array2)</code>
Ruby: delete items from array that are equal to object in argument	<code>.delete (object)</code>
Ruby: Delete the element at the specified index	<code>.delete_at(index)</code>
Ruby: Delete every element from array for which block evaluates to true	<code>.delete_if</code>
Ruby: Array iterator that imitates each but passes the index and not value	<code>.each_index</code>

Ruby: Array method that returns true if array contains no elements	.empty?
What is the array method arr.fetch do	tries to return element at the index
Ruby: what is an iterator that fills an array with the results of a block of code	.fill
Ruby: Returns the first element or count elements of an array	.first
Ruby: array method that returns a one-dimensional array of all the elements of array and any subarrays	.flatten
Ruby: Method to test if array includes an object	.include?(object)
Ruby: Method to insert objects into array	.insert
Ruby: Method to return the number of non-nil members of an array	.nitems
Ruby: methods to append an item to an array and remove an item from end of array	.push.pop
Ruby: What is the array method arr.rassoc method do	searches through the array whose elements are also arrays. Compares the argument with the second element of each array using == and returns first match
Ruby: Method to replace the contents of an array with the contents of another array	.replace
Ruby: Method to reverse the order of an array's contents	.reverse
Iterator similar to .each but traverses array in reverse order	.reverse_each
Ruby: Method that returns the index of the last object in an array that matches	.rindex
Ruby: Method that returns first object of array and removes it from array	.shift
Method that assumes an arr is an array of arrays and transposes the rows and columns	.transpose
Ruby: method that returns an array with all dups removed	.uniq
Ruby: Method that appends an object(s) to beginning of an array	unshift

Ruby: Method that returns the values at an array of indexes	values_at
Ruby: What does referencing an integer with int[3] do	returns the 3rd bit in the binary representation of int
Ruby: What is the .quo method on number do	Returns the floating point result of dividing
Ruby: How can you get the remainder of a division	.remainder(number)
Ruby: Method to determine if object is between 2 values	.between(min, max)
Ruby: Function of the Continuation class	somewhat analogous to a structured version of C's set jmp / longjmp (although they contain more state, so you may consider them closer to threads)
Ruby: Get the string name of current working directory	Dir.getwd
Ruby: Get filenames found by expanding glob pattern	Dir.glob(pattern)
Ruby: Make a new directory	Dir.mkdir
Ruby: Iterator method that passes collection to block and returns true if any of the blocks returns any value other than nil or false	.any?
Ruby: Iterator that passes each entry to block and returns the first for which block is not false	.detect or .find
Ruby: iterator similar to .each but passes both the item and index	.each_with_index
Ruby: Iterator that returns an array containing all elements for which block is not false	.find_all.select
Ruby: Returns an array of every element based on matching against regular expression	.grep
Ruby: Return true if any member of enum equals obj by testing using ==	enum.include?(obj)
Ruby: Iterator used to partition a collection into 2 parts, one for the block being true and one for the block being false	.partition

Ruby: Iterator that will return an array for all elements for which the block is false	.reject
Ruby: Numeric operator that returns the name of the object whose symbol ID is value of var	var.id2name
Ruby: Floating object method to return smallest integer greater than or equal to value	.ceiling
Ruby: Floating point method that returns the largest integer less than or equal to value	.floor
Module that provides interface to Ruby's mark and sweep garbage collection	GC
Hash iterator that will call the block with each key	.each_key
Ruby: Hash method to determine if value is present for a given key	.has_key?
Hash method that returns array of keys	.keys
Ruby: Hash method to merge in another hash	.merge.update (synonym)
Ruby: Hash method to rebuild index in case keys have changed	.rehash
Ruby: How is a constant created	always written using uppercase letters CONSTANT = "something fun"
Ruby: How are variables created	always start with a lowercase letter variable = "this can change later"
Ruby: How are comments denoted	use of a hash mark - # can be at start or later in a line
Ruby: What is the difference between fox.upcase and fox.upcase!	the use of the exclamation means that method will change the actual content of fox and without the exclamation it returns upper case but leaves fox alone.
Ruby: What is the convention on methods that return boolean values	the method name ends with a ? fox.empty?
Ruby: How is a instance variable in a class denoted	preface the variable with @ class Car @mileage = 0 end
Ruby: How do you create an instance method in class	defined using the def keyword class Car def open_trunk#code to open trunk goes here end end

Ruby - define: mixins	mixin is like a partial class definition. way of adding additional class functionality without multiple inheritance. Ruby classes can include the functionality of any number of mixins.
Ruby: How do you create reader and writer method for instance variables in class	def mileage=(x) @mileage = x end mileage @mileage
Ruby: How do you create static variables in class	@@ prefix
Ruby: Syntax for class inheritance	symbol <class StretchLimo < Car....."end
Ruby: Convert a object to Float type	Float(object)
Ruby: Grab a list of signal names mapped to the underlying signal numbers - form of interrupt handling	Signal.list
Ruby: Grab the process ID of this process	Process.pid
Ruby: Replace the current process by running the given external command	exec(command)
Ruby: Match methods to return pre-selected, post selected and selected string	.post_match.pre_match.select
Ruby: Convert an object to String type	String(object)
What is the following doing: str % arg	formats using str as a format specification and applies it to arg
Ruby: Hash method that returns an array of values at a given key	.values_at
Ruby: Integer method to return a string containing ASCII character represented by receiver's value	.chr
Ruby: What is .succ method do	increments the integer
Convert an object to Integer type	Integer(object)
Ruby: Method that terminates execution immediatly with code of 1 - for failure	abort or fail
Ruby: Register a block of code to run at exit - can register more than one	at_exit
Ruby: How do you do formatted output	formatsprintfprintf
Ruby: Return an array of the global variables	global_variables

Ruby: Generate random number	srand - to seedrand - to generate
Ruby: What are unary plus and minus operators for numbers	-var +var
Ruby: How do you get the ID for an object	.object_id
Ruby: How do you convert an object ID to a reference of an object	._id2ref
Ruby: Proc object method to return the number of arguments required by the block	.arity
Ruby: Specify the handling of system signals	Signal.trap
Ruby: What does: "Ho! " * 3 do	returns "Ho! Ho! Ho! "
Ruby: String method to do a case insensitive comparison	.casecmp
Ruby: String method to center text with a given padding	.center
String method that chops off the last character of a sting	.chop
Ruby: String method to insert another string at a given index	.insert(index,string)
Ruby: String method to return the Symbol corresponding to the string	.intern or .to_sym
Ruby: String methods to right and left justify a string with padding if necessary	.ljust.rjust
String methods to strip trailing/ preceding / or both sides of white space characters from a string	.rstrip .lstrip .strip
Ruby: String method to replace string with new string	.replace
Ruby: String method that returns the index of the last occurrence of a given substring	.rindex
Ruby: String method to scan for a match with pattern	.scan
Ruby: String method to swap the case of every letter in a string	.swapcase
Ruby: String method to perform translation from one character set to another	.tr
What is Ruby class for handling time/dates	Time

What is the Curses library	fairly thin wrapper around the C curses or ncurses library Allows applications a device-independent way of drawing on consoles and other terminal-like devices
What is the dRuby library	allows Ruby objects to be distributed across a network connection
Ruby: What library helps with creating temporary files	Tempfile
Ruby: Shortcut for creating simple attribute-setting methods for a class	attr_writer :var_name,
Ruby: 2 ways to create an array object	a = [.....]a = Array.new
How do you convert a Range object to a list	.to_a method
Ruby: Syntax to count from 2 to 7 in a loop	2.upto(7)
Ruby: Range iterator method that will remove values from range based on function returning true	.reject { }
Ruby: How do you create a subclass	class subClass << superClass
Ruby: Syntax to count down from 99 to 95	99.downto(95)
Ruby: what is the function of the .collect iterator of collections	takes each element from the collection and passes it to the block. The results returned by the block are used to construct a new array
Ruby: What is the following syntax do: ?a	generates the integer value of ASCII character a
What is the function of the .find iterator	returns all elements which generate a true value in the code block
Ruby: How do you split a string based on a delimiter	.split(delimiter)
Ruby: String method that trims runs of repeated characters	.squeeze(char) or .squeeze!(char)
How can you prevent anyone from changing a particular object	.freeze
Ruby: How do you get the name of the class of a variable	.class method
Ruby: how may an iterator block pass a value to the method that yields to it	The value of the last expression evaluated in the block is passed back to the method as the value of the yield

Ruby: What is the following syntax do: <code>%r{..... }</code>	creates a regular expression
Ruby: Print variables under the control of a format string	<code>printf</code>
Ruby: Function that returns the next line from program's standard input stream	<code>gets</code>
What function is called by default when an object is created with <code>.new()</code> method	<code>initialize</code>
What message does Ruby send to any objects it wants to render as a string	<code>.to_s</code>
Ruby: What method can be called on any object that formats the object's ID and instance variables	<code>.inspect</code>
Ruby: how do you invoke the methods of the super Class within a subclass method	invoke super with no arguments <code>super</code>
Ruby: Shortcut in class to create accessor methods to return values of instance variables	<code>attr_reader :var_name, ...</code>
Ruby: difference between <code>:fox</code> and <code>fox</code>	<code>:fox</code> - symbol which is like the name of the variable <code>fox</code> - returns the value of the variable <code>fox</code>
Ruby: How can you make an class instance variable writable method - i.e. can set value	create a method whose name ends with an equal sign. <code>def duration=(new_duration) @duration = new_duration end</code>
Ruby: How do you create a class method instead of instance method	in the def put the class name with a period before method name <code>class Example def Example.class_method end end</code>
Ruby: Method to reverse the letters in a string	<code>.reverse</code> method
Ruby: How can you create a class based on Singleton pattern	make the new method private <code>private_class_method :new</code> then make a create method that only creates a new object if one hasn't been defined by referencing a class variable <code>@@logger = nil def MyLogger.create @@logger = new unless @@logger end</code>

Ruby: Difference between "protected" and "private" method	protected - may be called by any instance of the defining class or its subclasses private - may only be called withing the context of the calling object - never possible to access another object's private methods directly, even if the object is of the same class as the caller
Ruby: what are 2 ways to set up the access control for methods - public, private, protected	If you put the access desired on a line above method, all subsequent methods have that access level protected def Use the method names as arguments to the access control functions: private :method1, method2,
What does a variable represent in Ruby - an object or reference to object	simply a reference to an object, the objects themselves float around in a big pool somewhere
Ruby: Method that allows to make another copy of a string and not just a reference to old object	.dup
Ruby: What does indexing an array with a negative number do: a[-1]	counts from the end backward
What does indexing an array with following syntax do: a[1, 3]	returns a new array with 3 objects starting at position 1
Ruby: Keyword that returns reference to the current object in a class method	self
Define: Ruby iterator	simply a method that can invoke a block of code using the yield syntax
Ruby: How do you pass a variable when defining a code block for iterator	after the do var_name or { var_name code block....}
Ruby: What is the function of .each iterator for collections	simply yield successive elements of the collection which can be acted upon by the code block
Ruby: What is the function of .inject iterator method for collections	lets you accumulate a value across the members of a collection { memo, obj block} memo is the accumulator and value is set to each value of collection, accumulator is added to return of block
Ruby: How can you find out within a method if a code block has been associated with it - allowing differing behavior	Kernel.block_given?

Ruby: What does appending an ampersand (&) to the last parameter in method definition do	Ruby looks for a code block whenever the method is called. That code block is converted to an object of class Proc and assigned to the parameter
Ruby: Function that converts a block to a Proc object	lambda
Ruby: How would you indicate a number is octal, decimal, hex or binary explicitly	octal - leading zero 025decimal - 0dhex - 0xbinary - 0b
Ruby: what character is ignored in digit strings and can be used in place of a comma	underscore character 0b10_10011
Ruby: How can you generate the integer value of a control character - like CTRL x	?\C-x
Ruby: Syntax for counting in steps from one number to another	50.step(to_number, step_count)
Ruby: How do you convert a string to an integer	Integer(var)
Ruby: what does the %q and %Q delimiter produce	%q is a thin quote%Q is a thick quote (double quote) - that will do #{ } evaluations
Ruby: how do you remove a trailing newline character from string	.chomp
Ruby: String method that is upgrade to split and allows pattern matching to specify chunks	.scan
Ruby: string method to make string all lowercase	.downcase
Ruby: what are 2 ways to create a Range object	.. operator - 1..10, 'a'..'z'... operator 1...10, 'a'...'z' the triple dot excludes the high end
Ruby: Range method that determines if range includes a value	.include?(value)
Range methods that return the minimum and maximum values	.min .max
Ruby: what is the spaceship operator <=>	compares 2 values returning -1, 0, or +1 depending on whether the first is less than, equal to, or greater than the second
Ruby: How can you make an object you define capable of supporting Ranges	the object must respond to succ by returning the next object in sequence and the objects must be comparable using the <=> operator.
Ruby: Syntax to test to see if a value falls within a range	(1...5) === value (triple equal)

Ruby: What is the match operator for string / regular expressions	=~
Ruby: What is the not match operator for string/ regular expression evaluation	!~
Ruby: Syntax for running a match on a regular expression object	.match(string)
Ruby: What variable receives the part of the string that was matched by a regular expression pattern	\$
Ruby: What 2 variables receive the part of the string before/after a regular expression pattern match	\$` - before\$' - after
What character is used for escaping other characters in a regular expression	\ - backslash
Ruby: How do you force a regular expression to match at beginning or end of line in a string	^ - begining\$ - end
Ruby: How do you negate a character class [characters]in a regular expression	put ^ at the start [^characters]
Regular expression syntax to match zero or more occurance of r	r*
Regular expression syntax to match one or more occurrences of r	r+
Regular expression syntax to match at least 'm' and at most 'n' occurrences of r	r{m,n}
Regular expression syntax to match at least 'm' occurrence of r	r{m,}
Regular expression syntax to match exactly 'm' occurrences of r	r{m}
Ruby: How would you pass in a variable-length argument list	Placing an asterisk before the name of the parameter after the fixed parameters list def method_name(arg1, arg2..., *rest)
Ruby: Statement to restart running a loop from the beginning all over	redo
Ruby: How do you keep a .join call on a thread from blocking indefinitely	giving it a timeout parameter
Ruby: How can you ensure a block of code gets run after a block with recover sections	ensure block

How do you reference a method in a module namespace	Namespace.method_name
Ruby: Statement to make loop repeat from the start, without evaluating or fetching the next element	redo
Ruby: How do you reraise an error while in rescue	raise with no parameters
Ruby: what objects behave like IO but for strings	StringIO objects
Ruby: Array method to pack the contents of array into a binary sequence according to the directive	.pack
Ruby: What is main mechanism to allow limited access to a given resource	Monitor class or MonitorMixin
Ruby: What is the following code doing: words[key] = []	it expands to words[key] = words[key] [] and if words[key] is nil then the value of (or operator) will be the second operand, a new, empty array
Ruby: How can you open an existing file	File.open
Ruby: Simple method to create per-thread variables that can be accessed by other threads	treat the thread object as if it were a Hash, writing elements with the [] = and reading them back using the []
If you need to run a system command but handle both input and output to the process, how	IO.popen
Ruby: IO method that takes the name of I/O source, opens it for reading, calls the iterator once for each line in the file, and then closes the file automatically	IO.foreach
Ruby: Statement to end a program and return value to operating system	Kernel.exit
Ruby: How can you create a method that explicitly expects a block to be passed in	make the last parameter in method definition prefixed with an ampersand method_name(arg1, ..., &block)
Ruby: How do you define optional parameters in method	put equal signs with default definition method_name(arg1="default", ...)
How can you explode an array so that each member is taken as a separate parameter	put an asterick in front of array name method_name(*[])

Ruby: How can you get a string to be executed as a command by the underlying operating system	surround it with backticks `command` or %x{command} or system("command")
Ruby: What would the following code do: a, b = b, a	swap the values of a and b, the assignment is done in parallel
What is the Ruby definition of false in boolean operations	any value that is not nil or the constant false is true
Ruby: What is the eql? operator	true if the receiver and the argument have both the same type and equal values
Ruby: what is the equal? operator	True if the receiver and argument have the same object ID
Ruby: What is the following syntax do: mon, day, year = \$1, \$2, \$3 if date =~ /(\d\d)-(\d\d)-(\d\d)/	the if at the end of the statement makes the assignment conditional
Ruby: What is the syntax for case statements	case var when "value"when "value2"exitend
Ruby: How can you stop execution of a loop	break
Ruby: Statement to skip to the end of the loop	next
Ruby: If you make your own exception classes: they have to be a subclass of _____ or one of it's children to allow the exception to be caught by default	StandardError
Ruby: How would you print something to the standard error stream	\$stderr.print "something"
What global variable does Ruby place a reference to the associated Exception object	\$_!
Ruby: How can you reraise the exception in \$_! after rescue block	raise with no parameters
Ruby: How can you create a variable to receive the exception object in rescue block	put a variable at the end of the raise statement like raise SomeException = @my_var_name
Ruby: How can you get a code block to be reexecuted after a rescue has happened	retry statement
Ruby: how do you raise a RuntimeError with a given message	raise "given message"
Ruby: How do you raise a particular Exception class	raise ErrorClass, error_message, stack_trace

Ruby: How does the catch and throw mechanism work to catch errors	when you call catch with a variable name (like - :done) executes normally until a throw is found with that name, then Ruby zips back up the call stack looking for the catch block with the matching symbol
How does ruby create namespaces to allow method names not to overlap	module keyword at top of block module NamespaceName
Ruby: Can a module have instances	no, because a module is not a class
Ruby: If you want to use code in a module in another file what is required	first use require 'file_name' then include ModuleName
Ruby: How do you add a mixin to a class	include module_name
Ruby: What is difference between load and require statements	load - includes the named Ruby source file everytime the method is executed require - loads any given file only once
Ruby: What is the single base class to handle input and output	IO class
Ruby: How do you create a new file to read/write to	file = File.new("name" , ...)
Ruby: Method to read a line from a file	.gets
Ruby: Iterator method to invoke a block for each 8-bit byte in a file	.each_byte
Ruby: Iterator method to call a block with each line from a file	.each_line
Ruby: string method that produces a version of string with all non printing characters replaced by \nnn notation and special characters escaped	.dump
Ruby: IO method to retrieve an entire file into a string	IO.read
IO method that can retrieve an entire file into an array of lines	IO.readlines
Operator to append an object to the output of IO stream	operator STDOUT "something"
Ruby: How are new threads created	Thread.new which is given a block that contains the code to be run in the new thread
Ruby: How do you wait for a particular thread to finish before proceeding	.join method

How do you find the current code's thread	Thread.current
Ruby: How do you get a list of all the program's threads	Thread.list
Ruby: What determines behavior if a thread raises an unhandled exception	depends on the setting of the abort_on_exception flag
Ruby: method to stop the current thread	Thread.stop
Ruby: Method to arrange for a particular thread to be run	.run
Ruby: Method that deschedules the current thread, allowing others to run	Thread.pass
What class is useful as an enhancement to Monitor to synchronize work between producers and consumers	Queue class
What is the difference between system("command") and `command`	system gives the command to a subprocess, and only returns true or false upon finishing of command backticks (`) gives you access to the standard output of a subprocess so you can see what happens
Ruby: How can you send an end-of-file to standard input of system command that has been opened with .popen	.close_write
Ruby: How can you send a subprocess off on it's own fork if underlying operating system supports	Kernel.fork
Ruby: When using built in Unit testing what is the naming scheme for testing methods	only methods whose names start with test are eligible
Ruby: What 2 methods can be created to run before/after every test method	setup teardown
How do you run Ruby in debug mode	invoke the interpreter with the -r debug option
Ruby: How do you run scripts with warnings enabled	-w command-line option
Ruby: How do you add profiling to code	using command-line option -r profile or from within the code using require 'profile'
How can you check the syntax of ruby program without running	-c compiler flag

Ruby: How do you access operating system environment variables	use the predefined variable ENV[] hash
What is the built in tool that extracts and formats documentation that's embedded in Ruby source code files	RDoc
Ruby: What is the standardized packaging and installation framework for libraries and applications	RubyGems
Ruby: How can you determine if a gem package is already installed	gem query -ln Name-l for local-n for name
Ruby gem: How do you install a package	gem install -r Name
How can you run Ruby in UTF-8 character mode	-K U -K is used to set the code and U for UTF-8
Ruby: How do you set up multi-line comments	line starting with =beginline ending with =end
Ruby: how can you set up code to be run before and at end of program in any ruby source file	put the following code blocks in source file:BEGIN { ... code here }END { code here }
Ruby: 2 basic integer types and difference	Fixnum - holds integers that fit within the native machine word minus 1 bit Bignum - whenever a Fixnum exceeds the range, it is automatically changed Bignum
Ruby: How can you generate the integer value for a meta characters	?\M-
Ruby: How do make a regular expression match begining and end of the string	\A - for beginning\nz - for end of string
Ruby: How do you name a global variable	start the variable name with dollar sign \$
Ruby: how do you access a class Constant outside the class or module where they are defined	use the :: operator ClassName::CONSTANT_NAME
Ruby: What is the operator for exponentiation	**
Ruby: How to create a new name that refers to an existing method, operator, global variable	alias new_name, old_name
Ruby: Helper function to setup reading and writing function for a variable	attr_accessor

Ruby: How do you add a mixin to a class	include below the class definition class class_name include mixin_name
Define: duck typing	an object's type is determined by what it can do, not by it's class. If it acts like a duck it is treated like a duck.
Ruby: If you call a function with a code block attached how does the function call the code block	yield statement
Ruby: When in irb (interactive) mode how do you run a .rb file	load "filename"
Ruby - What is the difference between \$var, @var, and @@var	\$var - is a global variable @var - is an instance variable of class - every instance of class has a copy @@var - is a class variable - only one for all instances of class
Ruby: What does a hash return by default if you try to access non-existent member and how do you change this	nil changed by specifying a default value when you create a new, empty hash myHash = Hash.new(0) - this creates a default of zero
Ruby: Method to replace first instance of a matched string	.sub
Ruby: How do you create a regular expression	by writing a pattern between slash characters/pattern/
Ruby: Syntax for the else if part of statement	elsif
Ruby: how do you call a function with a code block associated with the call	you put the code between braces { }function_call(parameter_list) { code block}
Ruby: Syntax to return a value from function	return statement or if no return statement is used, the result of the last statement that was executed is used as the return value.
Ruby: 2 statements to show output to the users of an application	print and puts puts - inserts a carriage return at the end of its output
Ruby: How do you create an array	use brackets around elements you want in the array service_mileage = [5000, 15000, 30000, 60000, 100000]
Ruby: How do you grab a line of keyboard input?	gets my_var = gets
Ruby: how do you access elements in arrays	use [] service_mileage[0]
Ruby: how do you output an inspect string of a given variable to the user screen	p my_var

Ruby: Shortcut for forming an array from a list of strings	user the %w syntax available_colors = %w(red green blue black)
Ruby: Array method to determine if array has elements	empty? method available_colors.empty?
Ruby: Array method to determine number of elements in array	.size method
Ruby: Array methods to return first and last elements in array	.first.last
Ruby: Array method to remove the named element from the Array and return it	.delete "name"
How can you access the ruby documentation for a command	from system prompt run ri command_name
Ruby: how do you create a hash object with values	use the curly brace format car_colors = { 'kitt' => 'black', }
Ruby: how do you get a list of all keys of hash	.keys method
Ruby: how do you get a list of all values in a hash object	.values method
Ruby: What is a shortcut to specify string literals that contain quotes	%Q quote = %Q(Arnie said, "I'm back!")
Syntax to substitute Ruby code into string literal	Ruby expression #{} "The current time is: #{Time.now}"
Ruby: Method to do string substitution for every instance of a matching String	.gsub('current_string', 'replacement_string') gsub stands for global substitution
Method that returns true if a String contains another string	.include?
Ruby: Method to return a section of String	.slice
Ruby: Method to round off a number	.round
Ruby: Method to determine if number is zero	.zero?
Ruby: define symbol and how to create	simple textual identifier with less functionality than a String, defined with colon in front :fox is the name of the variable fox, and plain fox is the value of the variable :fox
Ruby: how do you convert from String to Symbol and back	.to_sym - from string to symbol. .to_s - from symbol to string
Define: nil	value used to mean nothing

Ruby: 2 basic conditional constructs	if and unless
Ruby: 3 types of loops	while , until, and for
Ruby: syntax for - for loop	it loops over the elements of a collection for car in [kitt, herbie, batmobile, larry]puts car.mileageend
Define: Ruby blocks and show construction syntax	A block is able to receive parameters, which are placed between vertical bars () at the beginning of the block. Does the work of a for loop but more succinct. [kitt, herbie, batmobile, larry].each do car_name puts car_name.mileage end
Command line utility to allow you to find view and find documentation produced by rdoc	ri
Category: Serialization - (5 questions)	
Ruby: how to serialize an object into YAML	require "yaml"serialized_object = YAML::dump(myObject)
Ruby: how to unserialize an YAML object	YAML::load(serialized_object)
Ruby: how to turn a JSON string back to object	include "json"JSON.parse(json_string)
Ruby: how to serialize / deserialize with built in binary mechanism	serialized_object = Marshal::dump(object) object = Marshal::load(serialized_object)
Ruby: what are the performance differences when serializing via Marshal / JSON / YAML	Marshal is fastestJSON 2x slowerYAML 22x slower