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# Blocks and Closures
# Proc
def get_a_multiplier(factor)
 proc { |n| n * factor }
end
times3 = get_a_multiplier(3)
times5 = get_a_multiplier(5)
times3.call(12).send :display
                                                #=> 36
puts
times5.call(5).send :display
                                                #=> 25
puts
times3.call(times5.call(4)).send :display
                                               #=> 60
puts
# yield
def my_if(cond)
 yield if cond
end
a = 5
my_if(a < 10) do
 puts 'a is less than 10'
 a += 1
end
ра
# lambda vs proc
my_lambda = ->(x, y) \{ puts x + y \}
my_proc = proc \{ |x, y| puts x + y \}
# works as expected, prints 6
my_proc.call(1, 5, 11)
# an ArgumentError exception is thrown because the extra argument gets caught by
# arity of lambdas
# my_lambda.call(1, 5, 11)
def return_from_a_proc
  ret = proc { return 'Here I go from a proc' }
  ret.call
```

```
'This is not reached'
end
# prints "Here I go from a proc"
puts return from a proc
def return_from_a_lambda
 ret = -> { return 'Here I go from a lambda' }
  ret.call
  'This is printed'
end
# prints "This is printed"
puts return_from_a_lambda
# blocks
myarray = [1, 2, 3, 4, 5]
myarray.each do | item |
 item.send :display
end
puts
def method
 val = yield 0
 puts "value of yield0 : #{val}"
 val = yield 1
 puts "value of yield1 : #{val}"
end
method { |i| "return_val = #{i}" }
myarray = [1, 2, 3, 4, 5]
myarray.send :display
puts
myarray.find_all { | array_item | array_item > 3 }.send :display # [4, 5]
myarray.map { | array_item | array_item * 2 }.send :display
                                                           # [2, 4, 6, 8, 10]
puts
```