

README

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Project Euler Problems	

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- 5 Problem 5: Smallest Multiple**

2520 is the smallest number that can be divided by each of the numbers from 1 to 10 without any remainder. What is the smallest positive number that is *evenly divisible* by all of the numbers from 1 to 20?

i = 20

```

range = (2..20)

#range.each do |a|
while (i%2 != 0 ||
      i%3 != 0 ||
      i%4 != 0 ||
      i%5 != 0 ||
      i%6 != 0 ||
      i%7 != 0 ||
      i%8 != 0 ||
      i%9 != 0 ||
      i%10 != 0 ||
      i%11 != 0 ||
      i%12 != 0 ||
      i%13 != 0 ||
      i%14 != 0 ||
      i%15 != 0 ||
      i%16 != 0 ||
      i%17 != 0 ||
      i%18 != 0 ||
      i%19 != 0 ||
      i%20 != 0)

  i = i+1
end
#end

p i

# def get_products(n)
#   # Integer => Array of Integers
#   # Takes a positive number, returns an Array of products up to n

#   range = (n..5000).to_a.reverse

#   divisible = []

#   range.each do |i|
#     if divisible?(i,n)
#       divisible.push i
#     end
#   end
#   p i

```

```

#     end
# end

# return divisible

# end

# def divisible?(a,b)
#   #p "A -----"
#   pos = 0
#   #p "pos: #{pos}"

#   #p "B -----"
#   count = b
#   #p "count: #{count}"

#   while count > 0
#     #p "C -----"
#     #p "count: #{count}"
#     if a%count == 0
#       #p "D -----"
#       pos = pos+1
#       #p "pos: #{pos}"
#     else
#       break
#     end

#     #p "E -----"
#     count = count-1
#     #p "count: #{count}"
#   end

#   if pos > 0
#     #p "pos: #{pos}"
#     #p "b: #{b}"
#   end
#   pos == b

# end

```

```
# #p divisible?(10080,20)
```

```
# p get_products(20)
```