Find the largest palindrome made from the product of two 3-digit numbers.

Make a list of every pair of three digit numbers; map the pairs to their products; sort the list descending; check for palindromes starting with the largest.

```
list = []
999.downto(100) do |a|
   999.downto(100) do |b|
      list << a*b #add product directly
   end
end
list.sort! { |a,b| b <=> a }

list.each do |num|
   return num if palindrome?(num)
end
```

```
def palindrome?(num)
   num.to_s == num.to_s.reverse
end
```