```
map(fog) == map(f) o map(g)
f :: B =>C
                     fog : A => C
9 = A => B
 trait CovariantFunctor[F[_]] {
  def map[A, B](f: A => B): F[A] => F[B]
 trait Bar[A] {
  def bar(x: X): A
 object CoBar extends CovariantFunctor[Bar] {
  def map[A, B](f: A => B): Bar[A] => Bar[B] = (barA: Bar[A]) => new Bar[B] {
    def bar(x: X): B = f(barA.bar(x))
bar A :: Bar [A]
x :: X
map (f · g) :: Bar [A] => Bar[c]
map (f · g) (barA). bar(x) =
   (fog) ( Sar A. bar (x))
map(f) o map(g) : Bar[A] => Bar[C]
(map(f) o map(g)) (barA). bar (x) =
    map(f)(map(g)(bar A)).bar(x) =
    f ( map ( g) ( bar A). bar (x)) =
    f (g(bar A.bar (x))) =
   (f og) (barA.bar (x))
Thus Bar preserves morphism composition.
```