```haskell
samples = [3.0, 4.0, 5.0, 6.0]

range xs = length xs

mean xs = sum xs / range xs

sd xs = sqrt (variance xs)

variance xs =
  map (\x -> (x - mean xs) ^ 2 / range xs) xs
```

```
❯ ghc Main.hs
[1 of 2] Compiling Main             ( Main.hs, Main.o )

Main.hs:5:18: error:
    • Could not deduce (Fractional Int) arising from a use
 of ‘/’
      from the context: Foldable t
        bound by the inferred type of mean :: Foldable t =
> t Int -> Int
        at Main.hs:5:1-27
    • In the expression: sum xs / range xs
      In an equation for ‘mean’: mean xs = sum xs / range
xs
  |
5 | mean xs = sum xs / range xs
  |                  ^

Main.hs:7:9: error:
    • No instance for (Floating [Int]) arising from a use
of ‘sqrt’
    • In the expression: sqrt (variance xs)
      In an equation for ‘sd’: sd xs = sqrt (variance xs)
  |
7 | sd xs = sqrt (variance xs)
  |         ^^^^

Main.hs:9:44: error:
    • No instance for (Fractional Int) arising from a use
of ‘/’
    • In the expression: (x - mean xs) ^ 2 / range xs
      In the first argument of ‘map’, namely
        ‘(\ x -> (x - mean xs) ^ 2 / range xs)’
      In the expression: map (\ x -> (x - mean xs) ^ 2 / r
ange xs) xs
  |
9 | variance xs = map (\x -> (x - mean xs) ^ 2 / range xs
```