## Design helper function(s)

**Problem:** Given the compound data Velocity, and arbitrary sized data list[Velocity], write a function to compute the average speed of all velocities with a northerly heading in a list.

**Approach to solution**: Design a function average\_speed\_of\_northerly that takes in List[Velocity] and returns the average speed of the velocities with a northerly direction. Whether you design the main function (on the next page) or the helper function(s) first will depend on whether you are working top-down or bottom-up.

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| # Design helper function(s) here. |

## Design a main function

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| from typing import List  @typecheck  def average\_speed\_of\_northerly(lov: List[Velocity]) -> float:  """  Returns the average speed of the Velocities in `lov` that have a northerly direction.  Returns zero if no northerly velocities are in the list.  """  # return -1 # stub  start\_testing()  expect(average\_speed\_of\_northerly(  expect(average\_speed\_of\_northerly(  expect(average\_speed\_of\_northerly(  expect(average\_speed\_of\_northerly(  summary() |