In the attached solution we have an example of a service.

This service finds matches between 2 records – each record can be matched to only one other record.

Two records will be matched if **ALL** the below conditions are fulfilled, the conditions are:

1. Symbol fields are identical
2. Quantity fields are identical or have a tolerance value (up and down)
   1. For example (tolerance here is set to 10):
      1. Quantity1 = 100 & Quantity2 = 100 -> True (Valid for matching)
      2. Quantity1 = 110 & Quantity2 = 100 -> True (Valid for matching)
      3. Quantity1 = 100 & Quantity2 = 111 -> False (Not valid for matching)
3. Price fields should be identical
4. Date fields should be identical
5. Type fields should be opposite (Valid values – Buy/Sell)
   1. For example:
      1. Type1 = Buy & type2 = Sell -> True (Valid for matching)
      2. Type1 = Buy & type2 = Buy -> False (Not valid for matching)

Record example –

* Symbol: Google
* Quantity: 10000
* Price: 1250$
* Date: 05/03/23
* Type: Buy

Please write tests for the above service and try to find **and fix** all the bugs in the service

There is a sample test in the solution.

Good Luck!