

Exercise 1 *Type Classes*

1. What is the difference between a data type and a type class?
2.
 - (i) What is the minimal complete definition of `Eq`?
 - (ii) What is the minimal complete definition of `Ord`?
 - (iii) Name 4 functions required for the minimal complete definition of `Num`.
3. Answer true or false to the following statements:
 - (i) Every instance of `Ord` must be an instance of `Eq`
 - (ii) Every instance of `Num` must be an instance of `Eq`
 - (iii) `String` is an instance of `Ord`