

# Module 5 : Collections & Generics

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## Assignment

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# Assignment

1. Write the `subtract(...)`, `divide(...)` methods in `module5.generics.ArithmeticOperations` class.
2. Write a generic method to swap positions in any kind of list.  
[Solution: `module5.generics.GenericUtils`]
  - a. Method signature: **`public static <T> T[] swap(T [] list, int firstPos, int secondPos)`**
  - b. Throw appropriate exceptions if indexes are out of bounds.
3. Write a generic class `FriendshipCriteria` with attributes `T` & `S`.
  - a. `T` & `S` should implement `java.lang.Comparable`.
  - b. Write a programme to find friends (`FriendFinder`) when `T = java.lang.String` (which is the name) and `S = java.lang.Integer` (which is the age).
  - c. Write a programme to find friends (`FriendFinder`) when `T = java.lang.String` (which is the name) and `S = java.lang.String` (which is the location).
  - d. Try `T` & `S` with user defined classes.
    - i. [Solution: `module5.generics.FriendFinder`, `module5.generics.FriendshipCriteria`]