

Problem 2. [Polymorphism] In the `prob2` package of your workspace, you are given fully implemented classes `Staff` and `Teacher`. You will also find a class `Statistics` in the `prob2` package, with an unimplemented method `computeSumOfSalaries`. Your task is to implement `computeSumOfSalaries`.

The main method of the `Main` class must first combine the two input lists of `Staff` and `Teacher` objects into a single list (using the `combine` method provided). You may find the interface `EmployeeData` useful for this purpose; this interface is provided in the `prob2` package, but you will need to implement it yourself.

The combined list should be passed into `computeSumOfSalaries`, which must then *polymorphically* compute the sum of all the salaries of all `Staff` and `Teacher` objects in this combined list, by calling each object's `getSalary()` method; it must then return this computed value.

Requirements for this problem.

- (1) You must compute the sum of all salaries using polymorphism. (For instance, if you obtain the sum of all salaries by first computing the sums of the salaries in each list separately, you will receive no credit.)
- (2) Your implementation of `computeSumOfSalaries` may not check types (using `instanceof` or `getClass()`).
- (3) You must use parametrized lists, not "raw" lists. (Example: This is a parametrized list: `List<Duck> list`. This is a "raw" list: `List list`.)
- (4) You must add a proper `List` type in your implementations in the `Main` and `Statistics` classes.
- (5) You must implement the `combine` method provided in the `Main` class for the purpose of combining the `Staff` and `Teacher` lists.
- (6) You are allowed to modify declarations of `Staff` and `Teacher` (to support inheritance or interface implementation), but you *must not* remove the `final` keyword from either of these class declarations.
- (7) There must not be any compilation errors or runtime errors in the solution that you submit.