We publish the post-mortem for an assignment after it has been marked and released. Here is a list of common mistakes provided by the graders for assignment 8.

**General**

- As usual, please ensure your code runs before submitting.
- Some students are still missing parameter references in their purposes.
- A few students are not following the order for the design recipe which leads to them losing a lot of style marks.
- Few students wrote all the required test cases.
- Some students did not create their own test cases that are different from the ones given in the question.
- Some students did not understand the difference between `listof` and `list` when writing contracts - `list` refers to a list of fixed length that contains exactly elements of the given types in exactly the given positions, while `listof` indicates a list of any length (including empty) that contains elements of the given types in any order.
- Many students forgot to include purposes and contracts for functions inside local.

**Question 2**

- Many students were missing contracts for their template functions.
  - In part (a), many students simply selected out the contents of the consumed `Dir` in their `dir-template`. However, it is important to realize that `(dir-contents adir)` is an `FDList`. As a result, `(dir-contents adir)` should be processed using the `fdlist-template`.
  - In the `fdlist-template`, many students were missing either the call to `file/dir-template` when processing the first element of the consumed `FDList`, or the recursive call to `fdlist-template` on the rest of the consumed `FDList`.
  - Parts (b), (c), and (d) were generally well done. However, some students did some of these questions in one big function instead of working from the templates and having 2-3 smaller functions, which resulted in complex and inefficient code.
  - In part (e), some students had issues with producing the paths when the consumed `Dir` contained multiple levels.
  - In part (f), many students did not correctly account for the cases where empty directories would be removed, after removing files that did not match the consumed format.
Question 3

- Some students tried to emulate built-in functions using lambda for the first argument in abstract list functions like `filter`, `map` and `foldr`. An example of such is `(map (lambda (x) (add1 x)) lst)` instead of `(map add1 lst)`. While the solution is still correct, a few marks were deducted under the "Code Complexity" category.

- Many students had an incorrect contract for Q3c and Q3d. The style guide specifies how to write the contract for nested lists. One of the common erroneous submissions was `(listof List)`.

- For Q3f, a lot of students missed a test where `to` is `(sub1 (length lst))`.

Question 4

- Many students did not include a purpose and contract for their local helper functions.

- A lot of the students did not understand the contract for predicate functions. For example, some students wrote `Pred?` when it should be `(X -> Bool)`.

- Some students did not read the question carefully and used pure structural recursion or abstract list functions when only accumulative recursion was allowed.