

Many applications maintain a list of recently used resources (files, URLs etc). Write a component (class or similar) that implements a "RecentlyUsedList", with the following properties:

- Items (strings representing filenames or URLs) can be added to the list with a ADD method
- The list is always ordered so that the most recently added item is at the front
- The list has a maximum length (configurable for instance by a constructor argument)
- The list shall never contain duplicates. If a duplicate is added, it should instead be moved to the front

You will implement this in the program language you feel most comfortable with. You must also include a set of unit tests, that demonstrates that the implementation has the listed properties.

You can use a unit testing framework if you want to, or just write some manual assert statements etc.

If you have trouble finishing the program within the given time limit, it's OK to just submit what you have finished, but don't forget unit tests. It's better to have a partially working program, with unit tests, than a fully working program without tests.

Try to make the solution as simple as possible. You are not required to include any kind of UI or persistence, and we expect you to use standard library collections (e.g. built-in List class) Code structure and readability is an important criteria in this assignment!