

Assignment 2

Write a shell script to concatenate lists together, and output the resulting list.

Do not include any argument that is a sub-list of the entire list. (The script will clean the list of any redundant items.) You must preserve the original order of the list. Remember to account for the following situations:

- a : at the beginning of the list is the same as a . at the beginning of the "list"
 - :/bin is the same as ./bin
- a :: anywhere in the list is the same as ::
 - /bin::/etc is the same as /bin::/etc
- a : at the end of the list is the same as a :.
 - /bin: is the same as /bin:.

Project using temporary files will not be graded.

The input to the script will be colon or space separated lists and the output will be a colon separated list with the original order preserved and all redundant items removed.

USAGE: clean_list list

Where list is a colon or whitespace separated list.

Examples:

```
prompt> clean_list a a:b a:b:c :x: y:z
a:b:c:.:x:y:z
```

```
prompt>clean_list /bin:/usr/bin:/usr/openwin/bin /usr/bin:/usr/etc:/etc: /usr/bin/X11 ./bin
/bin:/usr/bin:/usr/openwin/bin:/usr/etc:/etc:./usr/bin/X11
```

```
prompt>clean_list apple:orange:apple pear orange peach
apple:orange:pear:peach
```

REMEMBER TO HANDLE THE SPECIAL CASES OF LEADING:, A ::, AND A TRAILING :

If you do not handle these cases, the best grade that you can receive for the assignment is an A-