**Task 2 Explanation**

In Task 2 I use regular expressions to merge the three lists together and remove the duplicates from the lists

So, we get, three files with 1000 links in each of them from Task 1

I first open all files and read the lines in the files and save them to variables

Then,

I use regular expressions to create patterns. I run a for loop through the list and check if pattern 1 with depth 1 is found. If it is I append it to a new list.

I repeat the steps for depth 2 to 6.

I have a list with all the links arranged in ascending order.

I copy the contents of the list to another list, but I check for duplicates.

This removes the links with same URL and same depth.

But there are also some lines with different depths but same URL.

I run another for loop but this time I ignore the first two characters of the line, so I ignore the depth and then append only those lines to a new list that are unique.

Finally, I copy all the items in the list to a text file.