Question 1

The task is to recognize the following language:

- Any root in Turkish is included; *ev*, *araba*, etc.

- Genitive suffix; *arabanın*, *evin*, etc.

- Locative suffix; *arabada*, *evde*, etc.

- *-ki* suffix; *arabadaki*, *evinki*, etc.

- Plural suffix.

You are required to write an xfst script that maps the underlying forms to surface forms.[1] You have to be able to handle any legitimate combination of these roots with the given suffixes (e.g. *arabadakilerinkilerde*) *and* you have to be able to reject any ungrammatical combination (e.g. **arabadalar*, this is not plural suffix, it is third person plural agreement suffix). You also need to handle the morphophonemics of these combinations, how to adjust vowels, where to insert an /n/, etc.

You can follow the example here. You are also advised to prepare a test file like this to save yourself from retyping your examples again and again. Assuming that you keep your script in a file myscript.xfst and your test file in mytest.txt (you are free to pick any name you like), you can load your script by typing

source myscript.xfst

and run your script on the test file by typing

down < mytest.xfst

don't forget the '<'.

You may consult Göksel and Kerslake (2005) in case you need some background in Turkish morphology.

Put your script and test files in a zip bundle and submit via email to me.

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[1]If you cannot run xfst, please seek help from the class; if that doesn't work, contact me.