Ouestion 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 '<'.
```

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

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