

## MIDTERM ASSIGNMENT

### Question#1:

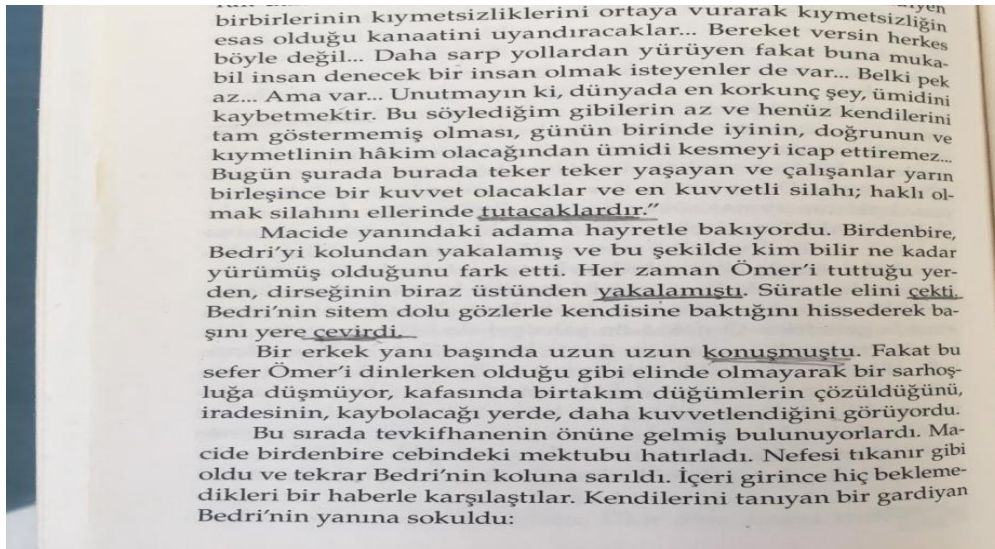
I took my sentences from novel which is "İçimizdeki Şeytan(page 248)".

My verbs are;

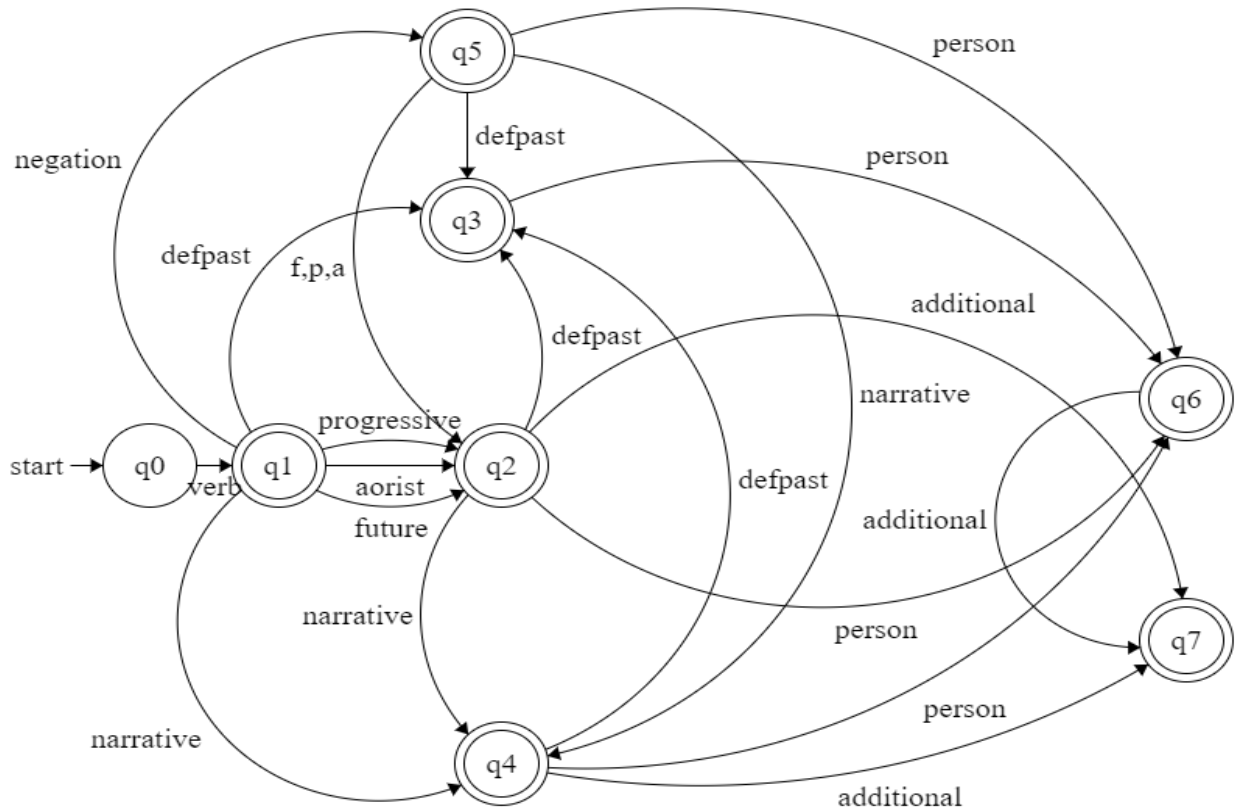
- yakalamıştı
- çevirmedi
- konuşmuştu
- çekti
- tutmayacaklardır

I changed "tutacaklardır" word as a "tutmayacaklardır" because I didn't find verb with a five inflection morphemes.

I changed "çevir" word as a "çevirmedi" because I want to use one more negation.




### Question#2: Finite-state automaton of morphologically analyzed.



## QUERIES

### POSITIVE QUERIES


 `trace,(analyze(yakalamıştı,M)).` ⊕ ⊖ ✕

Call: `analyze(yakalamıştı, _27014)`  
**M** = [verb, narrative, defpast]

Next 10 100 1,000 Stop

?- `trace,(analyze(yakalamıştı,M)).`

Examples History Solutions ☐ table results Run!

 `trace,(analyze(çevirmedi,M)).` ⊕ ⊖ ✕

Call: `analyze(çevirmedi, _12294)`  
**M** = [verb, negation, defpast]

Next 10 100 1,000 Stop

?- `trace,(analyze(çevirmedi,M)).`

Examples History Solutions ☐ table results Run!

 `trace,(analyze(konuşmuştu,M)).` ⊕ ⊖ ✕

Call: `analyze(konuşmuştu, _12294)`  
**M** = [verb, narrative, defpast]

Next 10 100 1,000 Stop

?- `trace,(analyze(konuşmuştu,M)).`

Examples History Solutions ☐ table results Run!

```
trace,(analyze(çekti,M)).
```

Call: *analyze*(çekti, \_12294)  
**M** = [verb, defpast]

Next 10 100 1,000 Stop

```
?- trace,(analyze(çekti,M)).
```

Examples History Solutions

☐ table results **Run!**

```
trace,(analyze(tutmayacaklardır,M)).
```

Call: *analyze*(tutmayacaklardır, \_12294)  
**M** = [verb, negation, future, person, additional]

Next 10 100 1,000 Stop

```
?- trace,(analyze(tutmayacaklardır,M)).
```

Examples History Solutions

☐ table results **Run!**

## **NEGATIVE QUERIES**

These queries are not follow vowel harmony in Turkish

```
trace,(analyze(yakalamıştı,M)).
```

Call: *analyze*(yakalamıştı, \_12294)  
**false**

```
?- trace,(analyze(yakalamıştı,M)).
```

Examples History Solutions

☐ table results **Run!**

```
trace,(analyze(çevirmadi,M)).
```

Call: *analyze*(çevirmadi, \_12294)  
**false**

```
?- trace,(analyze(çevirmadi,M)).
```

Examples History Solutions

☐ table results **Run!**

```
trace,(analyze(konuşmuştu,M)).
```

Call: *analyze(konuşmuştu, \_12294)*

false

```
?- trace,(analyze(konuşmuştu,M)).
```

Examples History Solutions

☐ table results Run!

```
trace,(analyze(çekti,M)).
```

Call: *analyze(çekti, \_12294)*

false

```
?- trace,(analyze(çekti,M)).
```

Examples History Solutions

☐ table results Run!

```
trace,(analyze(tutmayacaklardir,M)).
```

Call: *analyze(tutmayacaklardir, \_12294)*

false

```
?- trace,(analyze(tutmayacaklardir,M)).
```

Examples History Solutions

☐ table results Run!

This query is not follow consonant harmony in Turkish (çekdi)

```
trace,(analyze(çekdi,M)).
```

Call: *analyze(çekdi, \_12294)*

false

```
?- trace,(analyze(çekdi,M)).
```

Examples History Solutions

☐ table results Run!