

Keeyon Ebrahimi
HW2

Problem 1

- a) Show the airlines with fights to Boston.

```
[S      [VP      [Verb  "Show"]
              [NP      [Det "The"]
                      [Nominal  [Nominal  [Nominal  [Noun "airlines"]]]
                                [PP      [Preposition "with"]
                                      [NP [Nominal [Noun "flights"]]]]]
                      [PP      [Prep  "to"]
                            [NP [Proper Noun "Boston"]]]]]]
```

- b) Show the airlines that fly to Boston.

```
[S [VP [Verb "Show"]
      [NP [Det "the"]
          [Nominal [Nominal [Noun "airlines"]]]
              [Nominal [RelClause "that"
                        [VP [Verb "fly"]
                            [PP [Prep "to"]
                                [NP [Nominal [Noun "Boston"]]]]]]]]]]
```

- c) I need to know the flight number.

```
[S [NP [Proper Noun "I"]]
   [VP [Verb "Need"]
       [Nominal [Nominal [GerundVp
                        [Gerund V "to know"]
                        [NP [Det "the"]
                            [AP "number"]
                            [Nominal [Noun "flight"]]]]]]]]
```

- d) Do you prefer to go to Boston

```
[S [Aux "Do"]
   [NP [Pronoun "you"]]
   [VP [Verb "prefer"]
       [Nominal [Nominal [Gerund VP
                        [Gerund V "to go"]
                        [PP [Preposition "to"]]]]]]
```

[NP [Proper Noun "Boston"]
]]]]]]

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Problem 2

English Grammar

```
sentence      :=  nomnp vp | vp | aux nomp vp | * Sing3rd singVerb | *nomPronoun pluralVerb;
nomnp         :=  nomPronoun | proper-noun | det nominal | nominal;
acunp         :=  accusPronoun | proper-noun | det nominal | nominal;
nominal       :=  noun | nominal noun | nominal pp | nominal pp pp | nominal rel-clause;
vp            :=  verb | verb acunp | verb acunp pp | verb pp | verb inf-marker vp;
verb          :=  singVerb | plurVerb;
rel-clause    :=  rel-pro vp;
pp            :=  prep np;
```

English Lexicon

```
a,,          cat=det;
an,,         cat=det;
dinner,,     cat=noun;
do,,         cat=aux;
does,,       cat=aux;
eat,,        cat=singVerb;
eats,,       cat=pluralVerb;
Fred,,       cat=proper-noun;
gave,,       cat= past verb;
he,,         cat= Sing3rd;
her,,        cat=accusPronoun;
him,,        cat=accusPronoun;
I,,          cat=nomPronoun;
it,,         cat=Sing3rd;
it,,         cat=accusPronoun ;
letter,,     cat=noun;
me,,         cat=accusPronoun;
met,,        cat=past verb;
she,,        cat=sing3rd;
the,,        cat=det;
them,,       cat=accusPronoun;
they,,       cat=nomPronoun;
that,,       cat=rel-pro;
to,,         cat=inf-marker;
to,,         cat=prep;
waiter,,     cat=noun;
waiters,,    cat=noun;
want,,       cat=singVerb;
wants,,      cat=plurVerb;
```

with,,	cat=prep;
you,,	cat=nomPronoun;