

# **NLP: Assignment 3**

## **Syntax**

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**1. (a)**

terminal symbol

PRP->i | you | my

NN -> lasagna| vegan| order| salami| pizza

VB-> is| did| receive| want

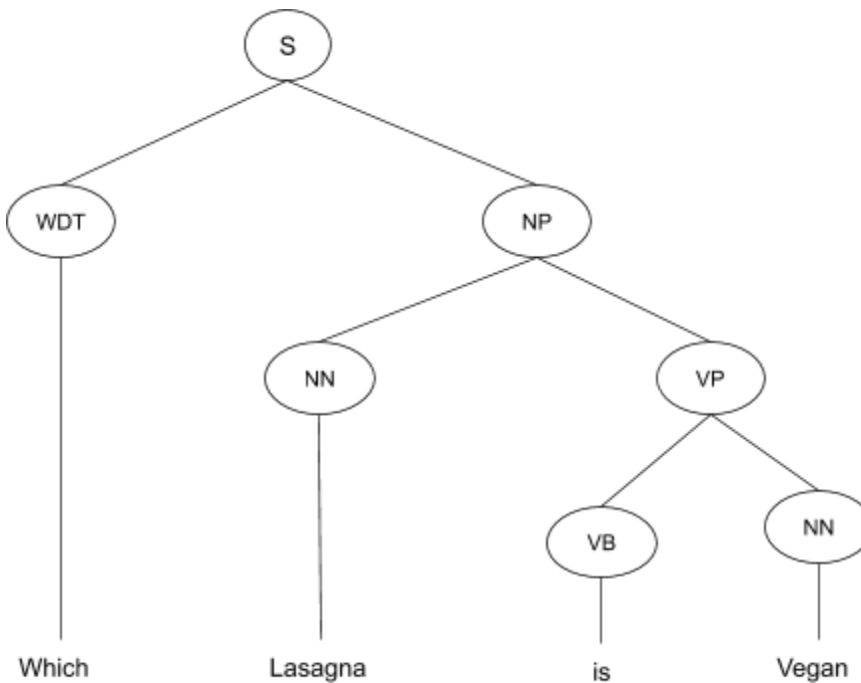
WDT-> which

DT -> a

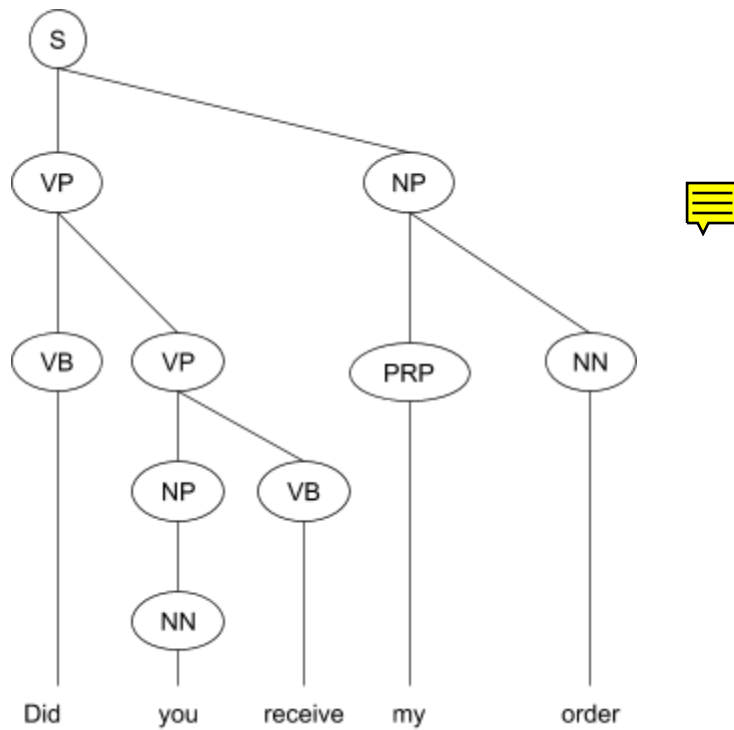


**1. (b)**

Example 2: which lasagna is vegan



Example 3: did you receive my order



### 1.3

Following answers are true

- show me the menu
- what pizza do you recommend



### 1.4

S start symbol  
N non-terminal symbol  
R rules

S  
NP, VP, WHNP, WDT, DT, PRP, NN, VB, **PP, CC, IN**  
S -> VB NP VP, S -> WHNP VP, S -> NP VP  
NP -> DT NP, NP -> PRP, NP -> NN, NP -> NP NP  
VP -> VB NP,  
WHNP -> WDT NP,  
**VP -> VB PP,**  
**PP -> IN NP,**  
**VP -> VB NP PP,**  
**NP -> NP CC NP**  
**VP -> VP CC VP**  
**S -> S CC S**



$\Sigma$  terminal symbol

PRP->i | you | my

NN -> lasagna| vegan| order| salami| pizza | **anchovies**

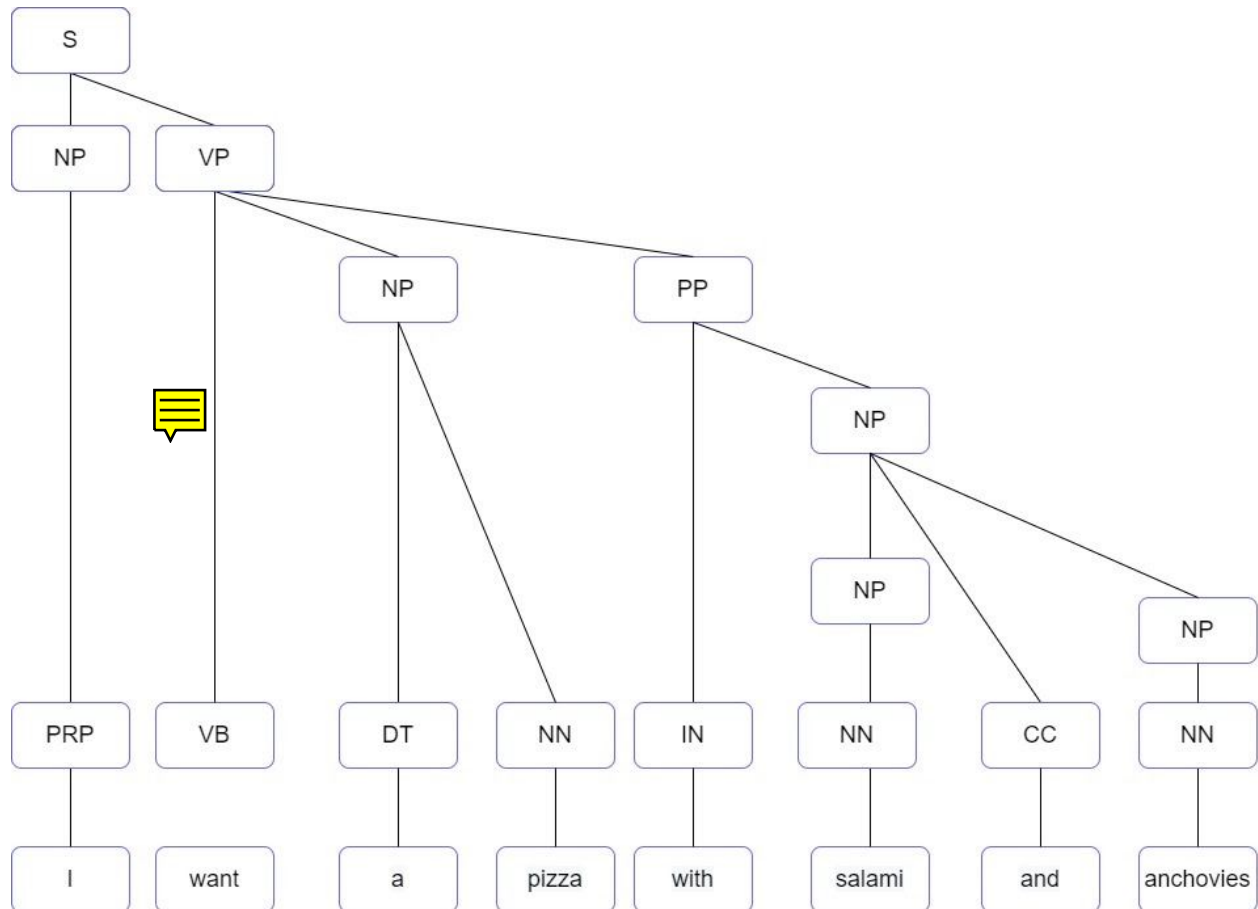
VB-> is| did| receive| want

WDT-> which

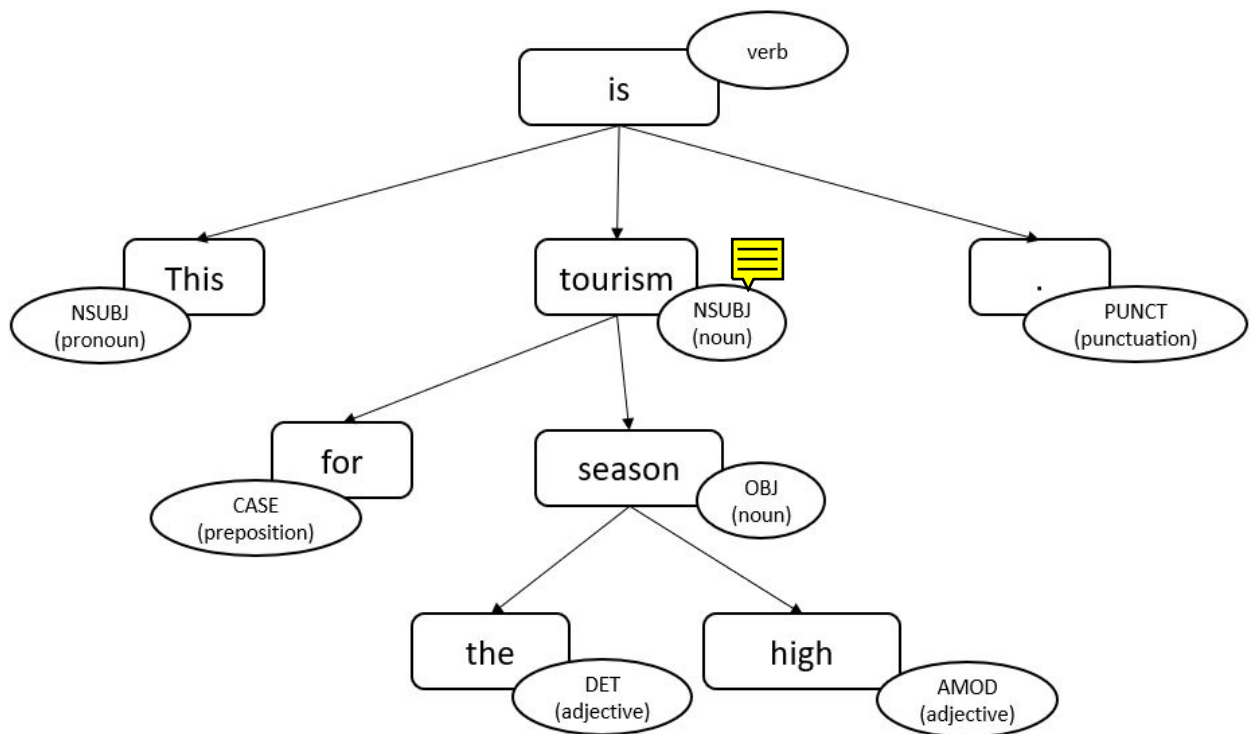
DT -> a

**IN -> with**

**CC -> and**



2. (a) This is the high season for tourism.



2. (b) It can also be dangerous if you use toxic chemicals and poisons.

