

NLP Course

Home Assignment (CPG Parsing)

(Due: in 7 days)

29 October 2019

1. Show the constraint graph and solution graph(s) for each of the following sentences in Hindi. (If you do not know Hindi, pick equivalent sentences from your language.):

a raama phala khaakara mohana ko bulaataa hei.
Ram fruit having-eaten Mohan -ko calls is
(Having eaten fruit, Ram calls Mohan.)

b raama ne phala kaaTakara khaayaa.
Ram ne fruit having-cut ate
(Ram ate having cut the fruit.)

c phala kaaTane ke liye usane caakuu liyaa.
fruit to-cut -ke-liye he-ne knife took
(To cut fruit, he took a knife.)

2. Show the constraint graph and solution graph(s) for each of the following sentences in Hindi. (If you do not know Hindi, pick equivalent sentences from your language.):

a shikaarii ne bhaagaate hue shera ko dekhaa.
hunter -ne while-running lion -ko saw
(The hunter saw a lion while running.)

b raama ne haatha se chiilkara kelaa khaate hue
Ram -ne hands -se having-peeled banana eating

bandara ko dekhaa.
monkey -ko saw.
(Ram saw a monkey eating a banana having peeled it with his hand.)

3. Form integer programming problem for the sentences in Exercise 1.
4. Form integer programming problem for the sentences in Exercise 2.