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Features Chosen: pB, pI
pB = probability that current token is the beginning of a noun group \{0,1\}
pI = probability that current token is inside of a noun group \{0,1\}
priorTag, currentTag, nextTag determine the truth value of the features.
The term "noun-group" includes:
NN, NNP, NNS, DT, JJ, PRP
  #if a noun-group token is preceded by whitespace or a non noun-group token
  if (((priorTag == "") or (priorTag != "NN" and priorTag != "NNP" and priorTag != "NNS" and
priorTag != "DT" and priorTag != "JJ" and priorTag != "PRP")) and (currentTag == "NN" or currentTag
== "NNP" or currentTag == "NNS" or currentTag == "JJ" or currentTag == "DT" or currentTag ==
"PRP")):
    #if a determiner or adjective
    if (currentTag == "DT" or currentTag == "JJ"):
       #precedes a non noun-group token
       if (nextTag == "JJ" or nextTag == "NN" or nextTag == "NNP" or nextTag == "NNS"):
         return "pB=1 pI=0 B-NP"
       else:
         return "pB=0 pI=0 O"
    else:
       return "pB=1 pI=0 B-NP"
  #else if a noun-group token is preceded by a noun-group token
  elif (priorTag == "NN" or priorTag == "NNP" or priorTag == "NNS" or priorTag == "JJ" or priorTag
== "DT" or priorTag == "PRP") and (currentTag == "NN" or currentTag == "NNP" or currentTag ==
"NNS" or currentTag == "JJ" or currentTag == "DT" or currentTag == "PRP"):
    return "pB=0 pI=1 I-NP"
  else:
    return "pB=0 pI=0 O"
```