

CKY Algorithm

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Table 1: CKY Chart (Filling Out The Chart By Hand)

Span (i, j)	Non-terminal Productions and Pointers
[0,1] “British”	NP (NP→British), JJ (JJ→British)
[1,2] “left”	NP (NP→left), VP (VP→left)
[2,3] “waffles”	NP (NP→waffles), VP (VP→waffles)
[3,4] “on”	P (P→on)
[4,5] “Falklands”	NP (NP→Falklands)
[0,2] “British left”	NP (via NP→JJ NP, pointer: [0,1] JJ + [1,2] NP) S (via S→NP VP, pointer: [0,1] NP + [1,2] VP)
[1,3] “left waffles”	S (via S→NP VP, pointer: [1,2] NP + [2,3] VP) VP (via VP→VP NP, pointer: [1,2] VP + [2,3] NP)
[3,5] “on Falklands”	PP (via PP→P NP, pointer: [3,4] P + [4,5] NP)
[0,3] “British left waffles”	S (via S→NP VP, pointer: [0,1] NP + [1,3] VP) S (via S→NP VP, pointer: [0,2] NP + [2,3] VP)
[2,5] “waffles on Falklands”	VP (via VP→VP PP, pointer: [2,3] VP + [3,5] PP)
[1,5] “left waffles on Falklands”	S (via S→NP VP, pointer: [1,2] NP + [2,5] VP) VP (via VP→VP PP, pointer: [1,3] VP + [3,5] PP)
[0,5] “British left waffles on Falklands”	S (via S→NP VP, pointer: [0,1] NP + [1,5] VP) S (via S→NP VP, pointer: [0,2] NP + [2,5] VP)