## A Supplemental Material

training	English	French	Chinese
Span-Based			
policy gradient	10	10	10
likelihood+explore	5	2	2
SMM+explore	5	5	10
Top-Down			
policy gradient	5	2	10
likelihood+explore	2	5	2
SMM+explore	5	5	5
RNNG Discriminative, Size 128			
policy gradient	10	10	10
likelihood+explore	2	5	10
SMM+explore	2	2	2
RNNG Discriminative, Size 256			
policy gradient	10	10	10
likelihood+explore	2	2	2
In-Order			
policy gradient	10	10	10

Table 2: Number of candidates k (including the gold tree for the sentence) used per sentence for each exploration technique.