Cube Pruning

k-best parsing
(Huang and Chiang, 2005)

- a priority queue of candidates
- extract the best candidate
- push the two successors

	$\left(\text{PP} \begin{smallmatrix} \text{with} \star \text{Sharon} \\ 1,3 \end{smallmatrix}\right)$	$\left(\text{PP} \begin{smallmatrix} \text{along} \star \text{Sharon} \\ 1,3 \end{smallmatrix}\right)$	$\left(\text{PP} \begin{smallmatrix} \text{with} \star \text{Shalong} \\ 1,3 \end{smallmatrix}\right)$
	1.0	3.0	8.0
$\left(\text{VP} \begin{smallmatrix} \text{held} \star \text{meeting} \\ 3,6 \end{smallmatrix}\right)$ 1.0	2.5	9.0	9.5
$\left(\text{VP} \begin{smallmatrix} \text{held} \star \text{talk} \\ 3,6 \end{smallmatrix}\right)$ 1.1	2.4	9.5	9.4
$\left(\text{VP} \begin{smallmatrix} \text{hold} \star \text{conference} \\ 3,6 \end{smallmatrix}\right)$ 3.5	5.1	17.0	12.1