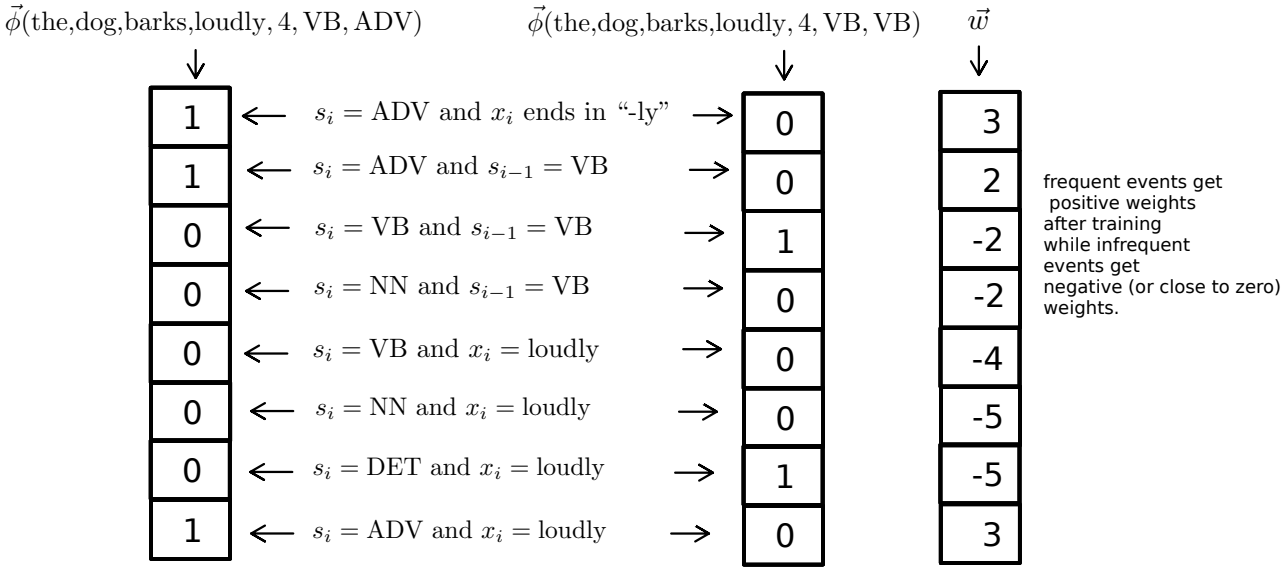
This is the same as checking if:

$\vec{w} \cdot \vec{\phi}(\text{the,dog,barks,loudly}, 4, \text{VB}, \text{ADV}) > \vec{w} \cdot \vec{\phi}(\text{the,dog,barks,loudly}, 4, \text{VB}, \text{VB})$



$$\vec{w} \cdot \vec{\phi}(\text{the,dog,barks,loudly}, 4, \text{VB}, \text{ADV}) = 1 * 3 + 1 * 2 + 1 * 3 = 6$$

$$> \vec{w} \cdot \vec{\phi}(\text{the,dog,barks,loudly}, 4, \text{VB}, \text{VB}) = 1 * -2 + 1 * -5 = -7$$