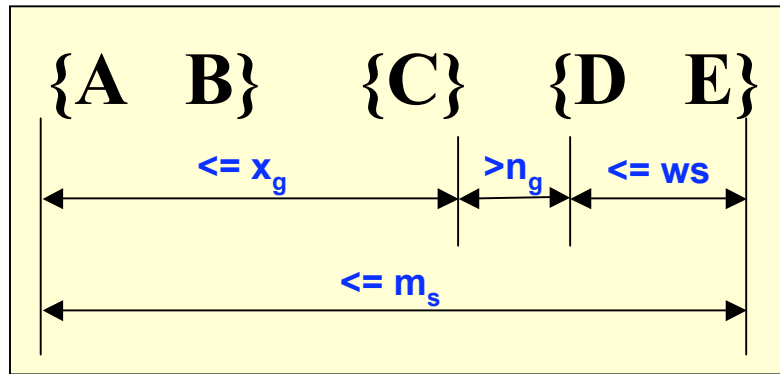


Timing constraints (II)



x_g : max-gap

n_g : min-gap

ws: window size

m_s : maximum span

$$x_g = 2, n_g = 0, \text{ws} = 1, m_s = 5$$

Data sequence, s	Subsequence, t	Does s support t?
$\langle \{2,4\} \{3,5,6\} \{4,7\} \{4,6\} \{8\} \rangle$	$\langle \{3\} \{5\} \rangle$	No
$\langle \{1\} \{2\} \{3\} \{4\} \{5\} \rangle$	$\langle \{1,2\} \{3\} \rangle$	Yes
$\langle \{1,2\} \{2,3\} \{3,4\} \{4,5\} \rangle$	$\langle \{1,2\} \{3,4\} \rangle$	Yes

Comment: the window size constraint restricts the time difference between the latest and the earliest event in any element of a sequence. In the above subsequences the first violates the mingap constraint since element gap is 0. In the second, ws is 1 time step for {1,2} and the element gap is 1 which is OK. For the third the ws is 0 and the element gap is 2 which is OK.