EX Sn is a Careter group.
Pf: represent elements by symmetric braids
$\frac{3}{2} \frac{1}{12} \frac{3}{12} \frac{12}{12} \frac{72}{12} \frac{71}{12} \frac{72}{12} \frac{72}{23} \frac{71}{23} \frac{72}{23} \frac{72}{23$
132 237132
length = # of inversions" wrt nc < 2< T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < 2 < T < 1 < T < 1 < T < 1 < T < 1 < T < 1 < T < T
o (it) courts as one
of((ij),(-i-j))court as one
反: ((132): 1→23丁132 3424「414243 3つ
l(132)=4
If d(tw) <1(w), its because t undoes
Q Crossing that already took place  W= 5, sk
tw = 5, .5, .5e
=> Exchanse property holds
=) Coxeter group