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Nota di contenuto	Coxeter groups, Hecke algebras and their representations -- Applications of Kazhdan-Lusztig theory -- Geometric interpretations of the Kazhdan-Lusztig polynomials -- The algebraic descriptions of the affine Weyl group $A_n$ of type $\tilde{A}_{n-1}$ , $n > 2$ -- The partition of $n$ associated with an element of the affine Weyl group $A_n$ -- A geometrical description of the affine Weyl group $A_n$ -- Admissible sign types of rank $n$ -- Iterated star operations and interchanging operations on blocks -- The subset $C(w)$ of the affine Weyl group $A_n$ -- The set $N$ of normalized elements of $C(w)$ -- The orbit space $\tilde{A}_n$ of the affine Weyl group $A_n$ -- The sequence $(w, k)$ beginning with an element of $N$ -- Raising operations on layers -- The left and right cells in $C(w)$ -- $C(w)$ is an $rl$ -equivalence class of $A_n$ -- Left cells are characterized by the generalized right $\phi$ -invariant -- The two-sided cells of the affine Weyl group $A_n$ -- Some properties of cells and other equivalence classes of $A_n$ -- Some special kinds of sign types -- The inserting algorithm on the set $C$ -- The restriction of the map on $p, n$ .