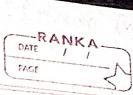
functions = - Non-Mutating Algo iterator auto ful = find (v. begen), vend, redue)
of datalytee > recommended to use unorder set I unordered map find takes O(1))

> class specific find function. (12) Lower Bound! > Returns an iterator having address of element greater I than cequal to gener value in a given sorted age, Eyntar auto it = lower_bound(v.begen(), v.ha(), val)_ lepperbound > classe Hercefor to først greater element in is hermulation > und to duck where all elements of one contaîners are permetation of our is permutation (vi. begin vienat), vz. bejal L6 112



(VI	Mare & Min element?
	auto lit = max_element (v. begins v. end)) = min_element (- begins v. end)
	in con af avvious s auto it = (* max_elamont (arr, arr+n)
V)	Court > iount (v. begen), v.end (), value)
VI)	Binary_search (v.begin(), veha(), value
V(I)	fell? = pstility funch en, fills the value in 12e rator (used for vector)
	still(v.begin(), vend(), value); de. (range) (cen ber altered)
vui)	rotate(): > (forward iterators) rotate(v.bpin, v.beyon ()+2, v.end(1)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	accumulate (v.bgin 1), v-end 17, ses) minus (ont)
	$1 \text{and} \lambda \lambda \lambda$

Srand (18 me (NULL)) resets different sone Bandon > l'eneau congrential Generator. Mutating 8Th Alg. ?) Sort > sout (arr. begen(), corr. end ()) make-heap? make-heap (v.begin(), v.end())

(by default max heap) (makes heap) Merge () > merge in sorted order

111) meorge (v1.bepan(), v1. end(), v2-beoght),

v2-end(), v3.bepan() (Sorket) (N) deweise () > selverse the container reverse (arr. begins), arr-end () v) taext_permutation >

prints lexographically next permutation

next_permutation (v begin (r, mend (1)) vil how_permutation >

gives prev permutation af
gives no.

A fand () > random value different sing Bondon -> l'incar congrential Génocator. (fe 101 Mutating 8Th Alg. dequin Sort > sout (arr. begen(), corr. end () (by Gefault max heap) (makes heap) Merge 17 3 merge in sorted order mercje (v1. begn(), v1. end(), v2-kegål), v2. end(), v3. begn()) 40 Sor teet W/ Jewess () > yelvers the container reveren (ambegen), am end!) v) taext-permutation > prints lexographically next permutation hext-permutation (v. begin (r; mend (1) frow-permutation:> gives prev permetation of gulep no: