Paiel paise-aaratype, data-types p= {1,3} pair = dara type, pain < dara type, dara type. pair 2 dala-type, paises dala-type) auc; p.first, p.second poforst. occord reuses Dynamic & memory unew array memory com be inerrased vector date-type v; 3 creates an empty container push back (1): 3 f14
v. emplace boek (2); 3 f1,24 Gfastell than push balk vector < pair < ?nt, int >> vec! v. push bouse (d1,23). v. penyslace-bank (1,2); vector<** v (5, 100); > {100, 100, 100, 100, 100) vector already have 5 places filled when son. 100

vector (ent) v(s); > or contained of sizes is secure vector cents us (ve); & copy of to after 5 we can increase the size of vector or conseculiacolos; Course vector (into: Exercise it = vo. begin (); cour << = (et) < = no (et) < " " pointing to to give the value in memory the memory holding this Decros < int>: Executor it & v. end (so somewhere ib -; - file the 15 ko point kulgar

{0, 20, 15 } y end vector cint? " tregator it = v. rend () " neverse end v. sibegins; nend & 0, 20, 154;

cout < v(0) « v.atEo); - same meaning colt Le v. baux c) 00 ; {10,20,30 } to primes the last plement for wearer int? " iterator it = v beging; our cour << *(ex) << " ") { for Cauro et = v. begins; êt! = v. end; et +) auording to dava, at auto aring the value for (aux it: v) {

cout << et < / > to itelata erase v. psage (v. begin () t1); v. erase (v. bogin ()+1 5 v. begin + 1 4); begin + 4 Laster erase 110,50,60 rectol < met > 0 (2,100); 00 -3 (100, 100) VERLOW v: into v. Ernell (v. begin (), 300); - (300, 100, 100 v. insell (v. begin (), 2, 100 - 10, 10, 300, 100, 100 v.aszed); Br. v. pop-back U; -> cast element popped v1. owarp(v2) 5 v1+(10,20) Job = abous wap v20

Date._/_/__ v. engety is = sanswers of question like is list listcent> lo; es-pust back (2);
es-pust-freence (5); es. emplace-fuentes; 52, 44; degreene deque = mb> da: dq. perm-bark' dg. pust puents;
dg. pop-boukls;
dg. pop-fuents; 11 elest same as vector funct may ardan stack > UFD Stack <9000 pt; st. push (1); -> (1); ob. push (2); > (2), 13; ob. push (3); > (3), 2, 13;

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	st. toplis \$ +2 \$85 (2) not allowed
	st, enoupty's;
	Staucent & 371, 572'
	\$1.5wapes+23;
	Queur - PIRO
	queucint) q; q.pust(1); J[1]
	a. pust (1); 3 514
	push of trappe
137	9. publis; - {1,24 emplace 9. publis; -> {1,2,34 same jane in mach 6: 3 utility.
	a. pursulas; - 51, 2,34 same jamen
	Collection of the state of the
	9 barr + 55° -> {1,2,84 pg
	q feont (); -31
	a. back (); 78
	9. pop(); 3 (2784
	Perperty quelle "Lenicography early on in successfully designation of der
	ascending designaing older
	puralry quew cens pai
	pg. pusil (5) -> (5)
	pg. push (2) -> (5,72 y
	pg. push (18) - \$18,5,29
\$.	pegs papels .pg. top(); 318
sitive)	p9. popu; 5 {5,5,2}
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	Date/_/
	125 we want in decending Ofder
	perforety quem ent, vector ent, greater (ents)
	pg. peron (5); f5 y pg. punn (2); f2,5 y pg. punn (18); f2,5 y pg. punn (18); f2,5 , 18 }
-	19 push(18), [2,5,189
	Set: > solted in unique
	ones (me) su
	arinseux (2) - 224
	stimsell (2) -> \$2,34
-	insest-(1) -> {1,2,32
-	ally of enderday.
	auto it = st. fund (3); -> \$ iterakon to find 3.
	st. erase (5)
	int cut = st. count (2); of does not ent
	allro et = st. fend(2);
	auxo et 2 s at. first (3); st. erase (et 1, 6,2);
	st. exase (xxx, xxx)

auto et : ot. conver-bound(2);

Date. / / cower bound Jupper lapurd [12335679] · Simuetio in a stare lower bound (3) - since us not in stack but lower found (4) a muon bel just bigget wir earreq bound (10) Bigger than it is also not there 21,3,3,4,5,6,9,3,999 uppersbound (4); Jahray port a no. just bigger jourspectivity upper bound 10): no sigger not present multiset - 3 sorted not unique mutiset zino selly mis; D. ms. melit ()); - Siz ms. insertus; -> (1,5,74) ms. in sell (2); 3 (1,1,1,2 int ent < ms. cours 1 ms. erase (ms. findu)); 3 ease (1,1,23

unordered set & unique but not assied > ordred unique keys in asked order James ser Men anique key + value can so, prepared CA TW map < true, into mpp; map < pair < mx, int > mpp; mpp (1) = 2; -> 0 & £1, 1 y mpp. emblace (53, 13); mpp. insut (52, 44); mpp mps [\$2,34] \$10; 12,24 12, ny for Lauro it & mpp I have course to second every, 13, W/4 cource mpp[5]; 39 couto et = mpp. find (3);

De positive)

Date._ /_ / in solved orded Kullmay) 11 any spokery commot be used ever. unorderedmapl) som dominged unique solling. OPR (a, a+n); Jobs vending (80ft (a, a+n, gueater <int>); + descendira Do secondo element. If second element is barne Then audding to frust element in descending sorbed : {4,14, 2, 12, 14, {1,24} abit (a, a+n, comp); g (p1. second = p2. second) return true of (p1. second > p2. second) & return false polaxonyx (RIS; of (p1. first > p2 first) return true neturn farse;

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Q.	Lind a cui permirkation
	Lind a au permitation S= u321 "
(1)	808× (So bearing () , Lenders)?
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	Justilelnent-permutation (sibegin(), s-end(s));
	summernent perminant is beginner, so en asso
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9	max element of an ar
	*max-element (a, a+n); *min_element(a, a+n);
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