	Accelerated C++
p-23	size_type, eg. std::string::size_type or std::vector/int7::size_type
p.47	hypedel vector (double > :: size-type vec-52;
p.47	shemminze prez = cont. precision();
p.57	Reading from an input stream in isheam & read (istream & in, vector (double) & vec) { if (in) {
	vec clear (); double x; white (in >> x) vec push back(x)
	in.clear(); z return in;
	Z
p.68	Header and source file partitioning
p.73	Error bypes: logic-error, domain-error, invalid-argument, length-error, ont-of-range, runhine-error, range-error, overflow-error, underflow-error
	vector (string) vec, other; vec.insert (vec.end(), other.begin(), other.end());
p.98	(cctype) header for manipulating character data isspace (c), isalpha (c), isdigit (c), is alnum (c), is punct (c), is upper (c), islower (c), bo upper (c), toloner (c)

P·115	(numeric) accumulate (v. begin(), v. end(), 0.0); where the Hird arg determines the return type,
p.i12	(algorithm) vector(double) grades;
	transform (students begin (), students end (), back-inserter (grades), grade-aux);
p.110	(algorithm) find (homework-begin (), homework end (), o);
p.102	(algorithm) copy (v. begin (), v.end(), back_inserter (res));
p.116	(algorithm) vector l'double) nonzero;
	remore-copy (homework begin() homework end (), back-inserter (non zero), 0);
p. 117	remove (b, e, t) , remove copy (b, e, d, t) remove $-ij(b, e, p)$, remove $-ij(b, e, d, p)$
	"Ij" raniant uses a predicate/functor, p, insteal of a ral, t.
p. 119	(algorithm) stable-partition (students begin (), students end (), pgade);
p. 120	Consial fact to understand algorithms and containers: "Algorithms act on container elements - they do not act on containers."
	List of algorithms.

p. 146	Iterator types: i) Input - sequential rend-only. ii) Output - sequential write-only. iii) Forward - sequential rend and unite. iv) Bidirectional - sequential forwards and backwards rend-unite. v.) Random access - random, non-sequential forwards and backwards rend-unite.
p.148	(algorithm) bool binary-search (Find begins), Find ends), (onst Texal);
p.151	(iterator) istream_iterator (T) (isheam_type &s)
	copy (istream_iterator(int)(cin), istream_iterator(int)(), back-inserter(rec));
	copy (vec. begin (), vec. end(), ostream-iterator (int) (cont, ""));
p.172	Function pointers and typedy for function pointers
	tg. double (*analysis) (const vector(int) &);
	typedef double (* analysis) (const vector (int > &);
	analysis get-analysis-ptr (); (Modern)
	double (* get-analysis-ptr()) (const vector (int) &) (Arrane)
p. 175	(cstddy) ptrdiff-t signed integer type for pointer anthmetic
p. 176	Shing literals are null terminated with 'O' char. (cshing) streen() returns the number of chars in a shing literal (or other null terminated) array of chars, not counting the null at the end.

p. 180 Output streams cout, cerr, clog. cont and clog employ buffering, whilst cerr does not. p. 191 When defining your own container class, remember to implement: typedel T value-type; typedel T& reference-type; typedel const T& const-reference; typedy size t sizetype;

typedy T* itemtor;

typedy const T* const_itemtor; p. 199 Assignment is not initialisation. Assignment Copendor =)
always obliterates a previous value, initialisation never does
so. Rather, initialisation involves creating a new object and
giving it a value at the same time. string arl = "www.google.co.uk" // initialisation string x; // initialisation x = url; // assignment 11 initialisation 11 initialisation When we use = to give initial value, we invoke copy constructor. The compiler will call the string constructor that takes a construct char *. That constructor can construct in directly, or construct an unnamed temporary, and then call the copy constructor to construct url as a copy of that temporary. p.201 Rule of Three: i) copy constructor, ii) assignment, iii) distructor. p.204 (memory) allocator (T) member functions:

T* allocate (size+); void deallocate (T*, size-t); roid construct (T*, const T&); roid dutroy (T*);

p.207 Non-member Junctions: void uninitialized fill (Fud, Fud, const 78); Find uninihalized - copy (In, In, Find); p.217/ Friend classes and Junctions. Makes no difference whether p.251 it Jollons a public or private label. Friendship is neither inherited nor transitive, friends of friends and classes derived from friends have no special privaledges. p.220/ Antomatic conversions once non-explicit constructor available p.225 which takes a single argument of appropriate type, or conversion operator of the form operator typename (); Conversion operators must be member functions. p.220 Symmetric binary operators should be non-member functions.

Asymmetric assignment binary operators (eg. "t=") should be member functions. Also, if an operator changes the data of an existing object, it should be a member function. p.223 void "type "universal pointer" can point to any type of object but cannot be dereferenced because the object type to yield is unknown. But permits conversion to boot. Eg. istream cin defines conversion to void * rather than to an arithmetic type or bool. This prevents mistakes of which would otherwise convert cin to bool, convert to int, then shift bitnise left by x bits.

p.235	Virtual only applies when a Junction is called through
	a reference or pointer. After all, calling a function on an ordinary object means we know the exact type of the object.
	ordinary object means ne know the exact type of the object.
	The phrase dynamic binding captures the notion that
	functions may be bound at runtime, as opposed to
	static birding that happens at compile time. Virtual
	The phrase "dynamic binding" captures the notion that functions may be bound at runtime, as opposed to static binding "that happens at compile time. Virtual label 3 automatically inherited.
2746	Ordinary, when a derived class redefines a function from
7.240	the base class, it loss so exactly - the parameter list and
	the return type are identical. However, if the base-class
	Sunction relims a printer (or reference) to a base class, then
	The derived-class function can return a pointer (or reference)
	to a corresponding devide class.
p.255	Managing memory: Handle class, Ref-handle class, Ptr class.
p.256	Overloading operator -> ()
	>c -> y equivalent to (x-operator -> ()) -> y
	g experience (c)
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