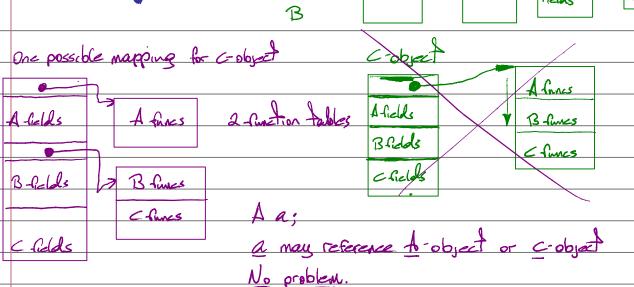
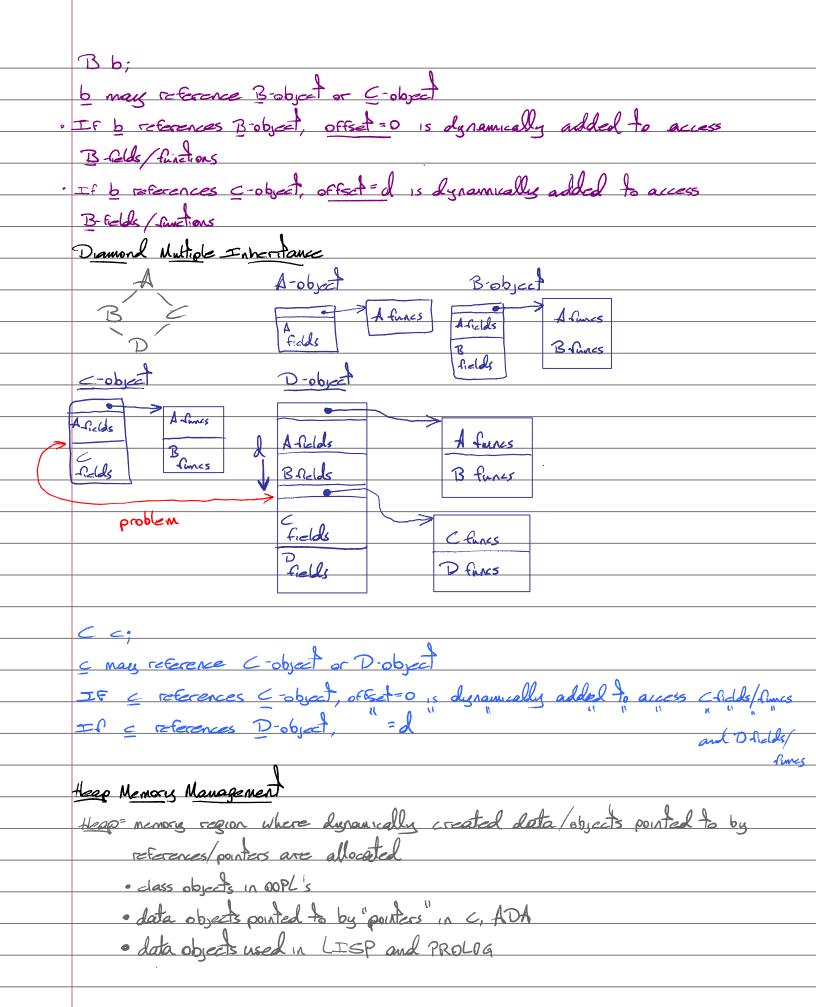
In single inheritance frees, there's a unique path from any ancestor class to any descendant class. Access to class fields / functions can alchaes be done uniformly be constant offects fixed at compile time memory format for A-object Multiple Inheritance hierarchy takes the form of lattice Root class May be multiple paths from an ancestor class



c many only reference c-object No problem.



	Tasks of Heap Memory Manager
	- Lynamic allocation of cells
	· constructor functions used in conventional languages like C/C++, ADA,
	· LISP, PROLOG, Javascript, etc. have no constructor functions. Necessary cells are
	automatically allocated
	· Reclamation of cells (deallocation)
	· destructor functions (delete(), free(), dispose(), etc) in c/c++, ADA, etc.
	· automatic garbage collector: lava, E.FFel, Small Talk, LISP/PROLOG
	· Compation (Defragmentation)
	· nemore cell reclamation will fragment heap
	object 1 object 2 obj 3 obj 4 obj 5 obj 6 obj 7 Free
	obj 2,4,6 reclaimed
	object 1 Free obj 3 free obj 5 free obj 7 Free
	Slows down allocation of new cells. shifting requires updating of reference values to the shifted cells
	oby 1 oby 3 oby 5 oby 7 Free
	Common Mapping of Entire Main Memory Segment Allocated to User Programs
1	Compiled Code Rustine Libs. State Rustine Heap
	Bookkeeping data Variables Stack grows right grows Left
(	
	Static Dynamic
	part