







For instance, HA1 search tree

Struct has char pointer, can reuse slurped storage

Every search tree node is a struct

Struct has char array, use strcpy
Struct has char pointer, use strdup

Optionally, remember string length

Each allocated with malloc

Choices for string storage:

C pointers

- Pointers hold addresses, and the compiler knows their type
- Create a pointer to a variable with &
- Dereference a pointer with *
- Pointer arithmetic uses the element size, like an array
- In fact, a[x] is the same as *(a + x)



Outline

C language topics

Exam logistics

- Topics in number representation
- Number representation problem
- Topics in machine code
- Machine code problems



Exam strategy suggestions

- Writing implement: mechanical pencil plus good eraser
- Make a summary sheet to save flipping though notes or textbook
- Show your work when possible
- Do the easiest questions first
- Allow time to answer every question









Outline

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No unsigned OF, negative OF:







Outline

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Outline	Working with ordering		
C language topics			
Exam logistics	Which of these conditions are the same?		
Topics in number representation	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Number representation problem	$\begin{array}{c} y = x & y = y \\ y = x & y = y \\ y = x & y = y \\ y = x & y \\ y = x \\ y =$		
Topics in machine code			
Machine code problems			

Working with ordering				
Which of thes Col. 1 A:x < y B:y < x D:! (x < y) C:! (y < x)	e conditions an Col. 2 B:x > y A:y > x C:! (x > y) D:! (y > x)	re the same? Col. 3 C:x <= y D:y <= x B:! (x <= y) A:! (y <= x)	Col. 4 D:x >= y C:y >= x A:! (x >= y) B:! (y >= x)	