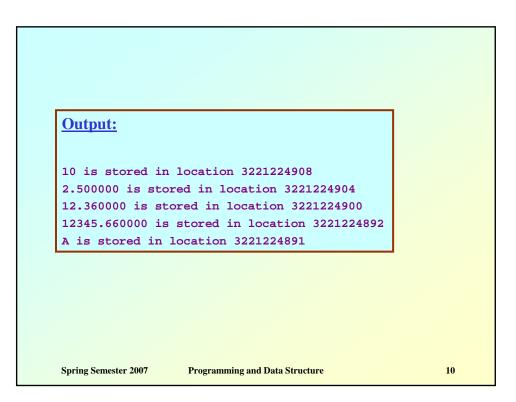
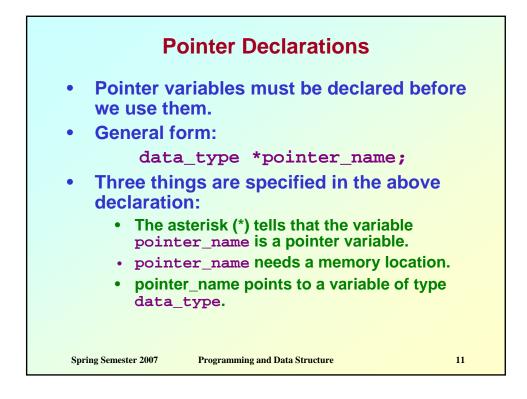
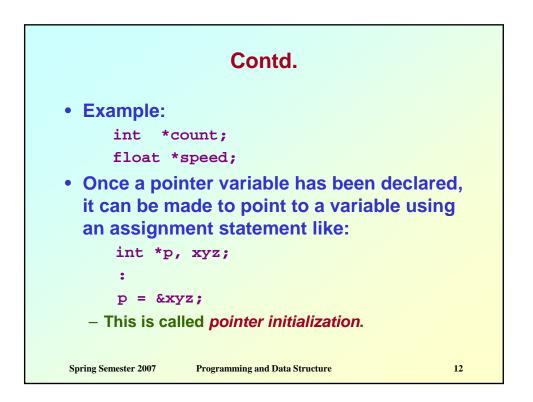
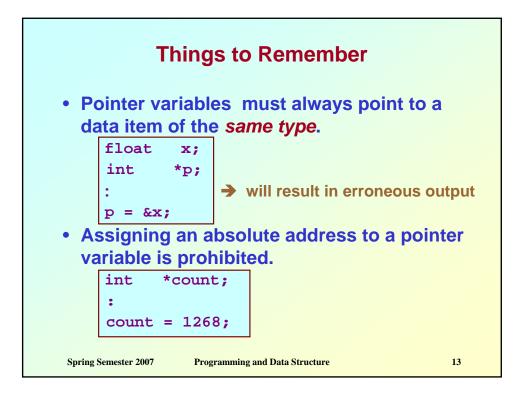


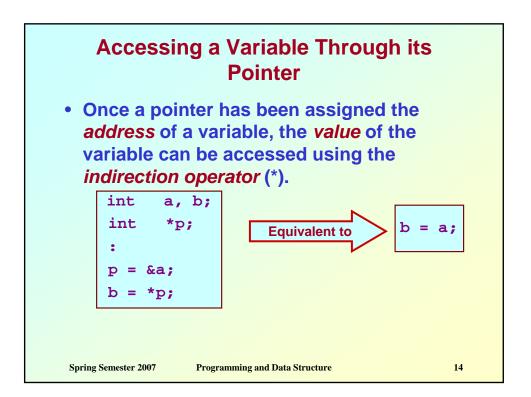
```
Example
#include <stdio.h>
main()
{
    int
         a;
    float b, c;
    double d;
    char ch;
    a = 10; b = 2.5; c = 12.36; d = 12345.66; ch = 'A';
    printf ("%d is stored in location %u \n", a, &a);
    printf ("%f is stored in location u \ n'', b, &b);
    printf ("%f is stored in location u \ n'', c, &c);
   printf ("%ld is stored in location %u \n", d, &d) ;
    printf ("%c is stored in location %u n'', ch, &ch);
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                                                        9
```

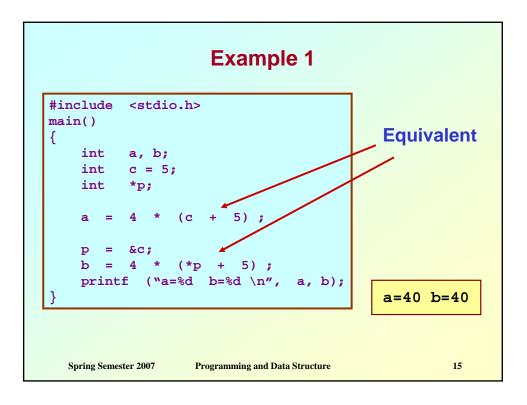




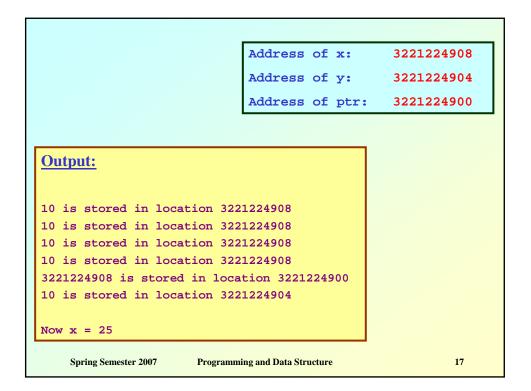


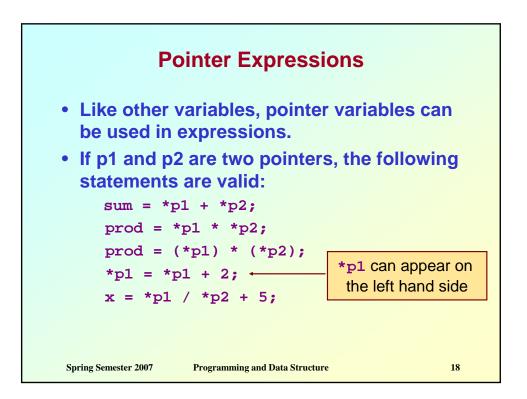


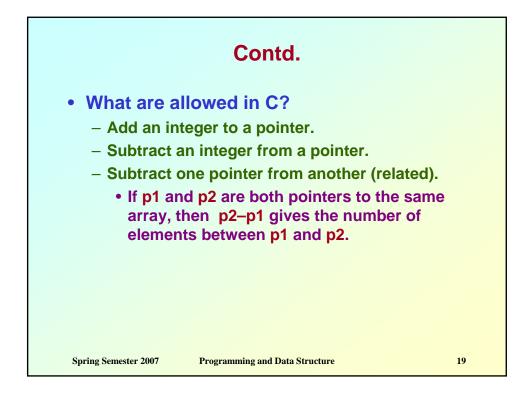


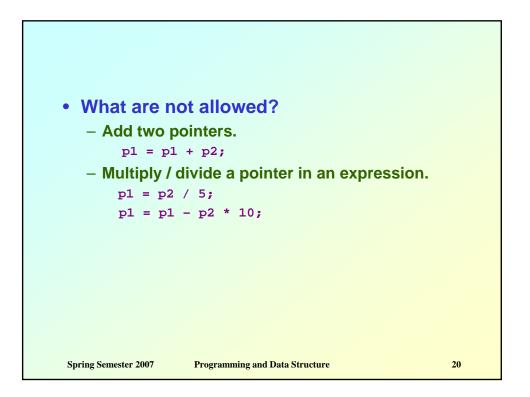


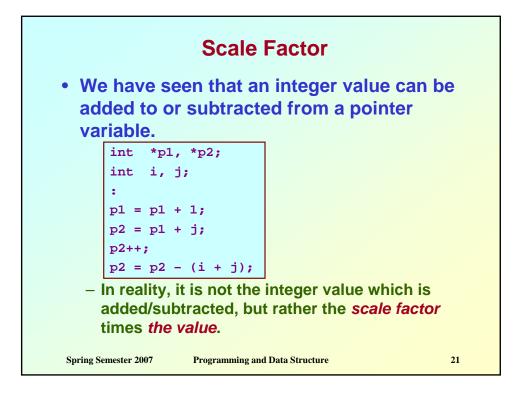
Example 2	
<pre>#include <stdio.h></stdio.h></pre>	
main()	
{	
int x, y;	
int *ptr;	
10 · ·	
x = 10;	
ptr = &x ; y = *ptr ;	
y = "pur; printf ("%d is stored in location %u \n",	ar Car) e
printf ("%d is stored in location %u \n",	
printf ("%d is stored in location %u \n",	
printf ("%d is stored in location %u \n",	
printf ("%u is stored in location %u \n",	
printf ("%d is stored in location %u n'' ,	
*ptr = 25;	
printf ("\nNow x = %d n'' , x);	
}	
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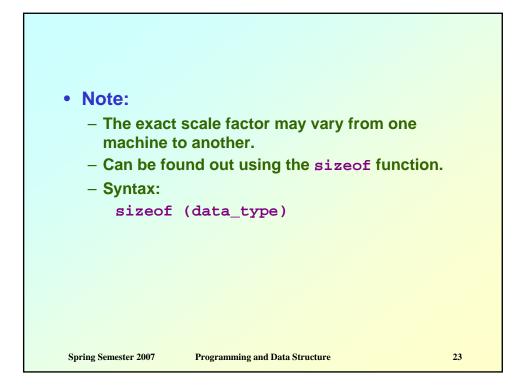


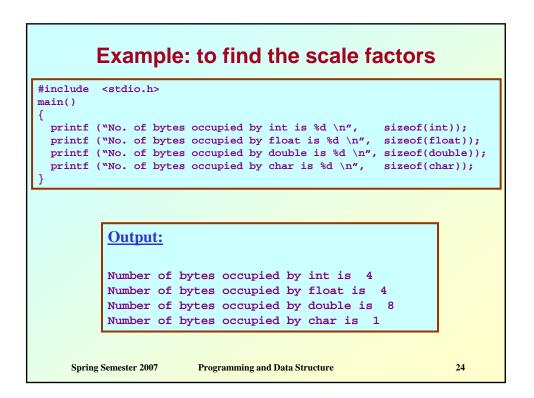


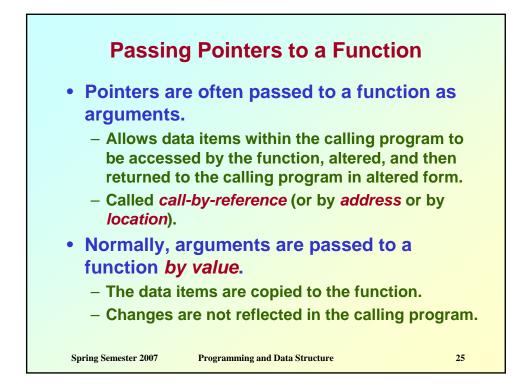


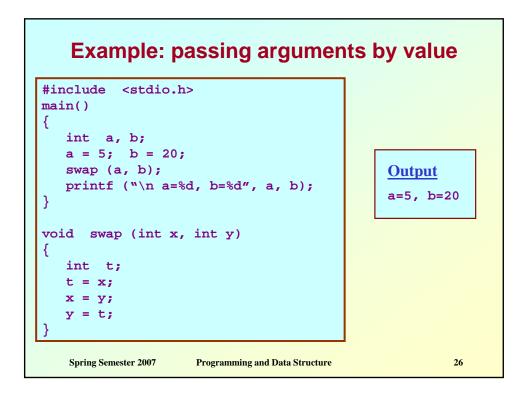


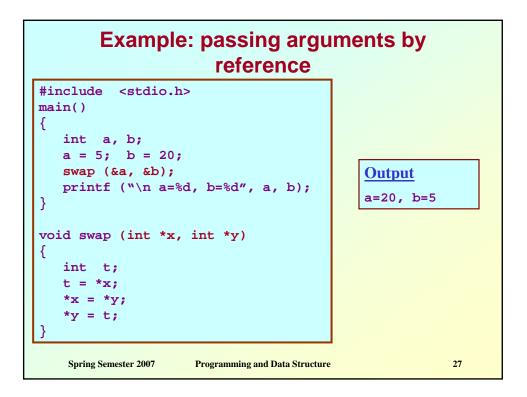
	Contd.	
Data Type	Scale Factor	
char	1	
int	4	
float	4	
double	8	
– If p1 is an int	eger pointer, then	
p1++		
will increment	nt the value of p1 by 4.	

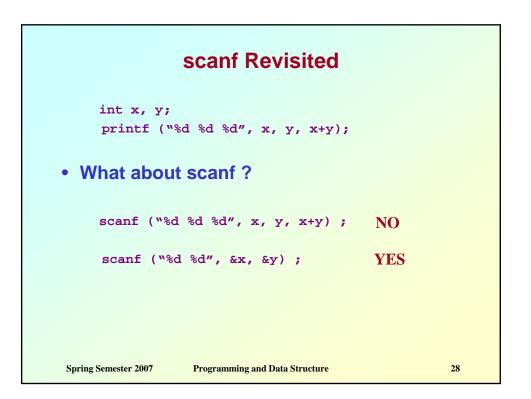


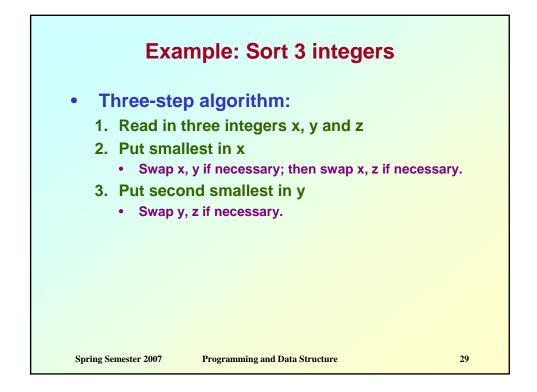






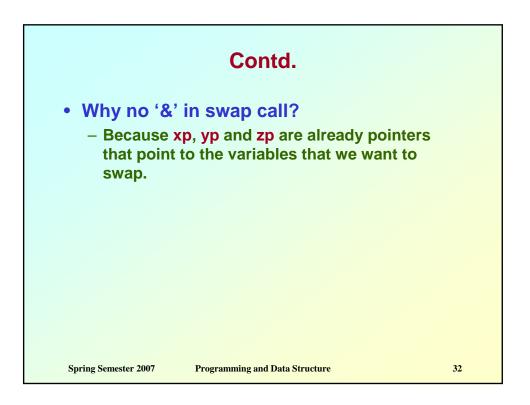


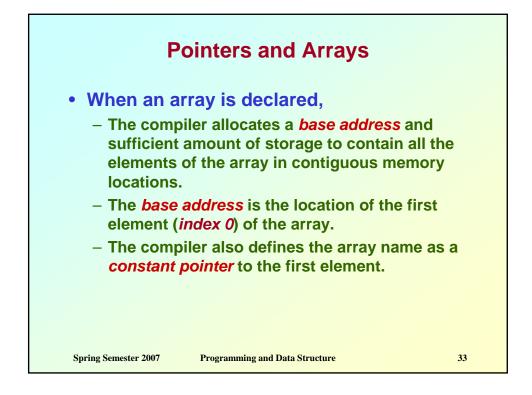


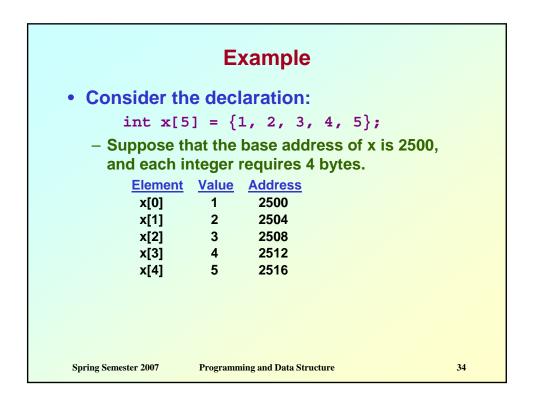


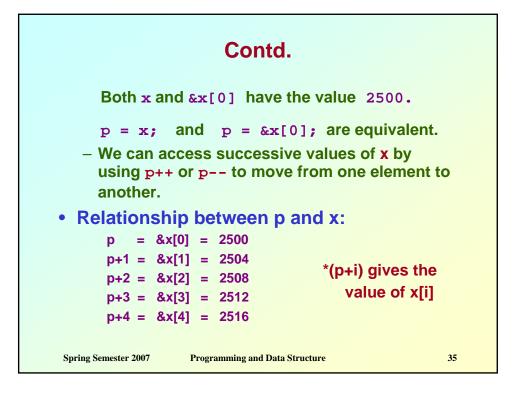
#incl	ude <stdio.h></stdio.h>
<pre>main(</pre>)
{	nt x, y, z;
±.	
s	canf ("%d %d %d", &x, &y, &z);
	f(x > y) swap(&x,&y);
i	f(x > z) swap(&x,&z);
i	f(y > z) swap(&y,&z);
•••	

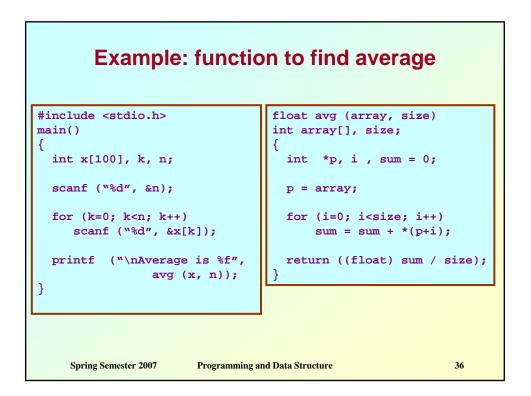
```
sort3 as a function
#include <stdio.h>
main()
{
    int x, y, z;
    scanf ("%d %d %d", &x, &y, &z);
    sort3 (&x, &y, &z);
   }
void sort3 (int *xp, int *yp, int *zp)
{
    if (*xp > *yp) swap (xp, yp);
    if (*xp > *zp) swap (xp, zp);
    if (*yp > *zp) swap (yp, zp);
                                                  31
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```

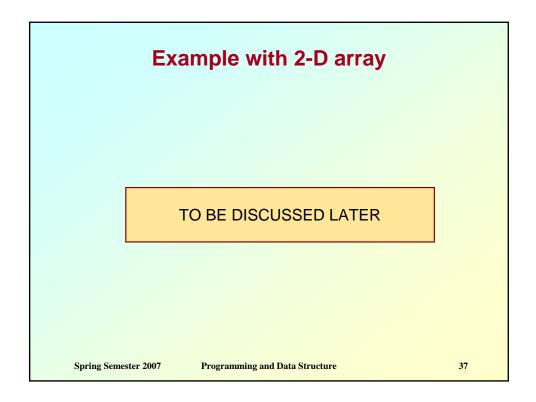


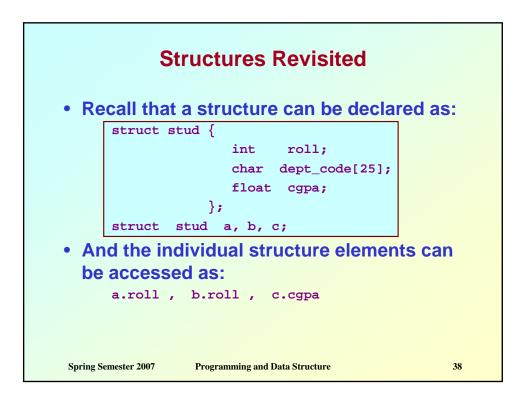


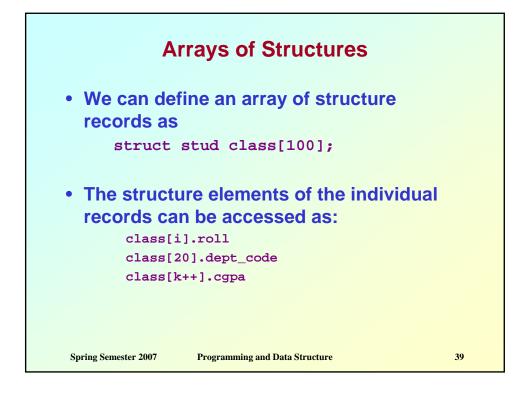


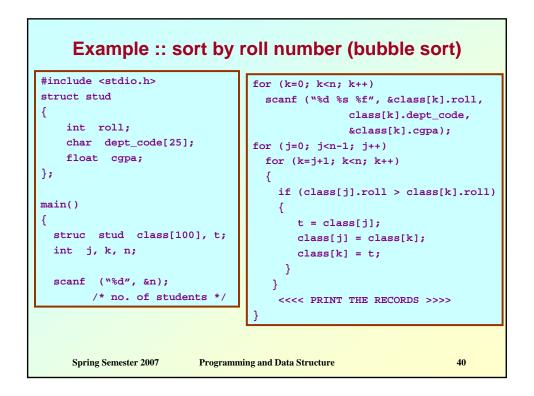


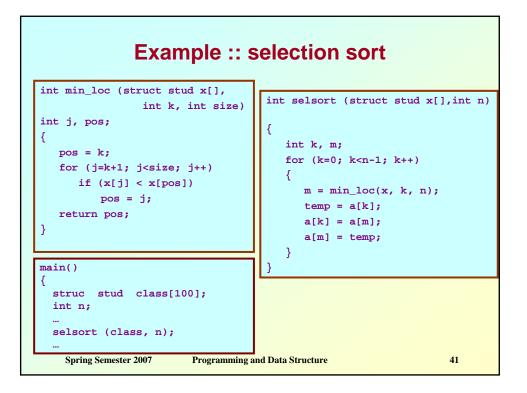


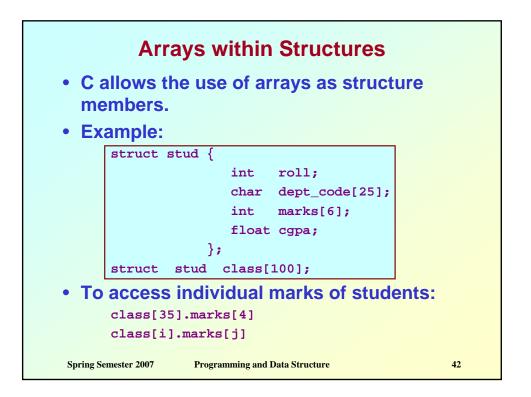


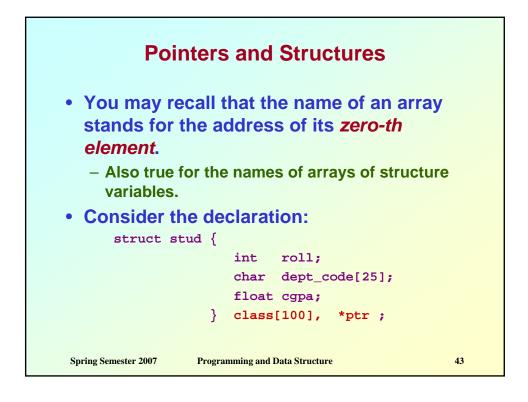


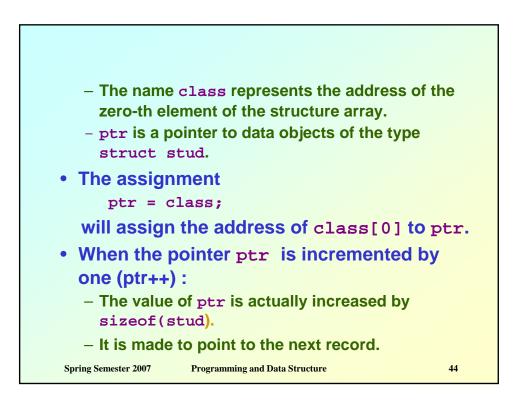


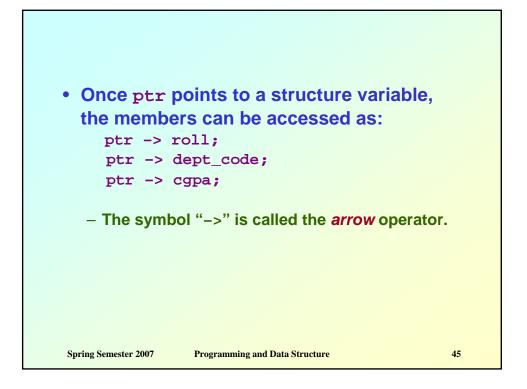




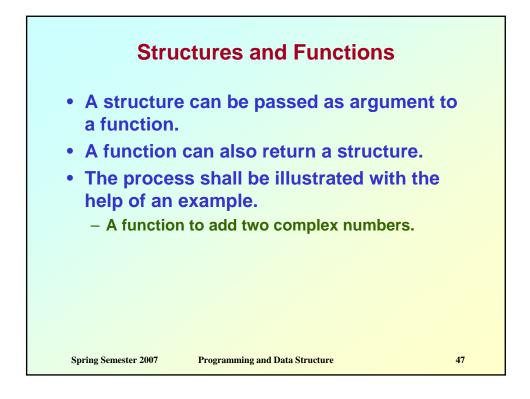


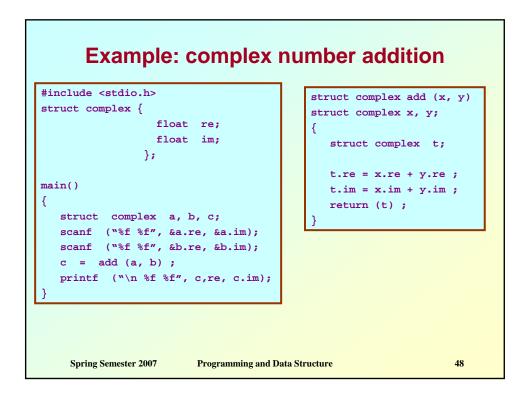


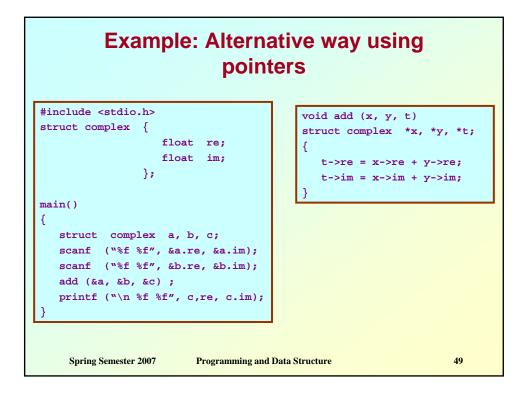


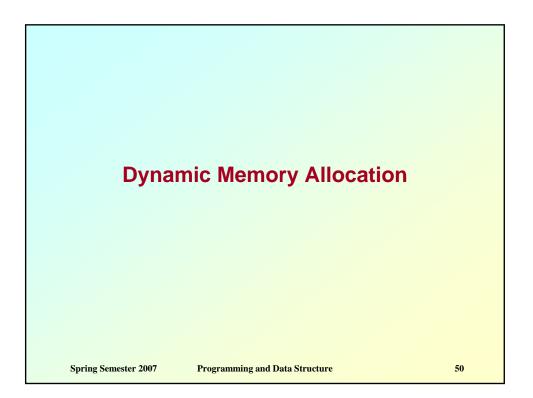


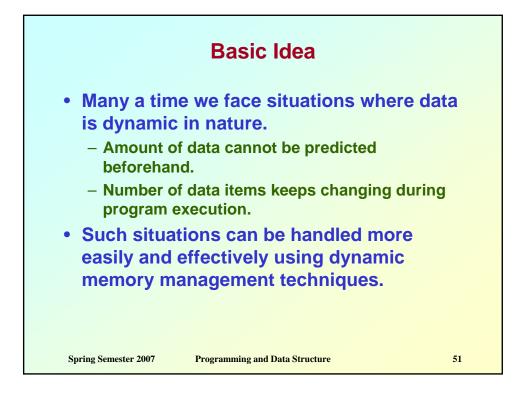


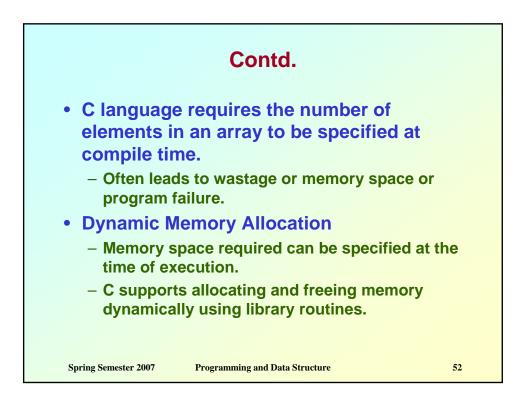


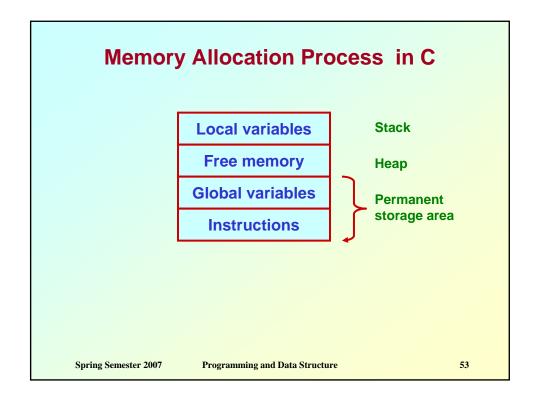


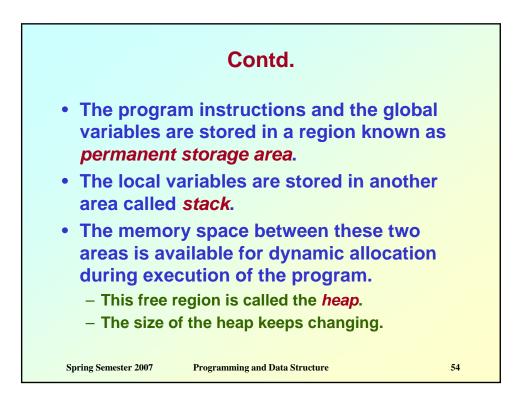


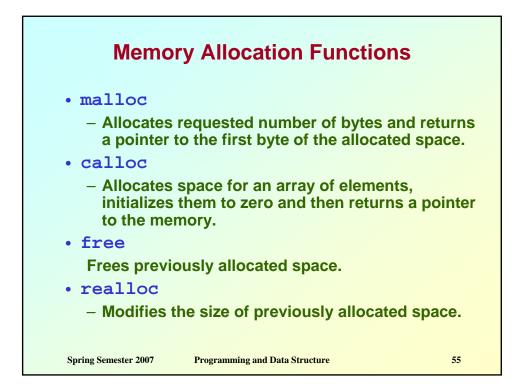


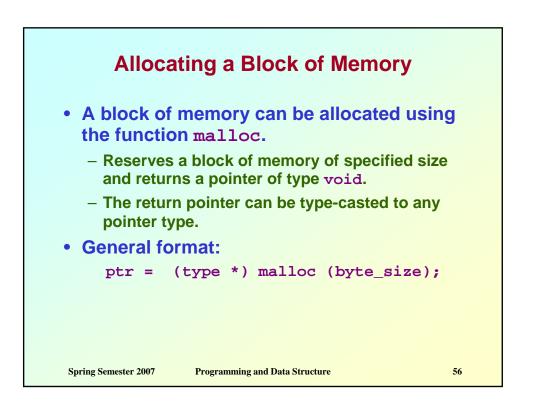


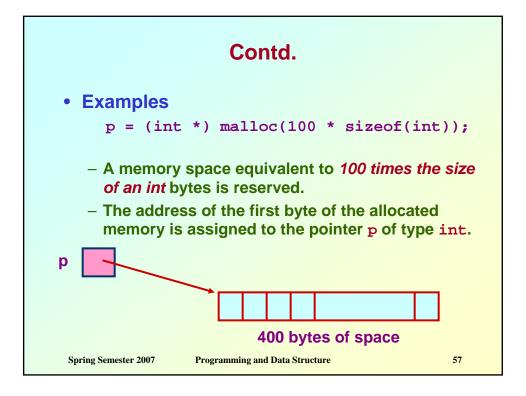


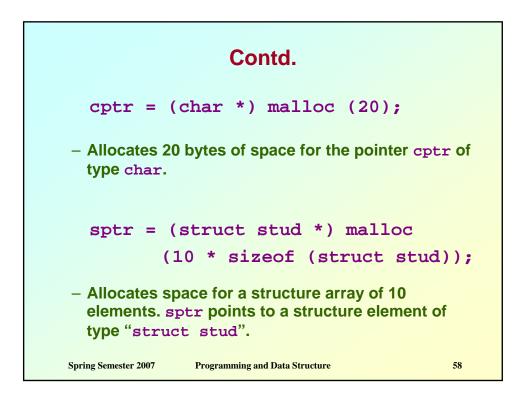


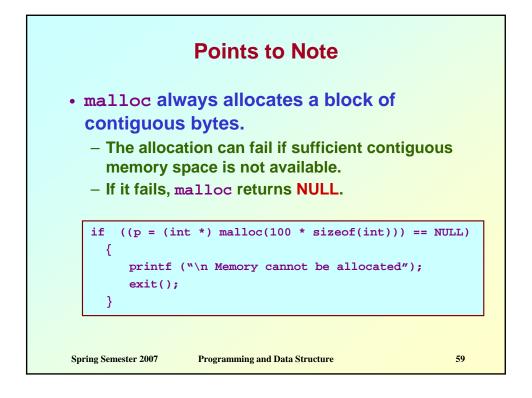


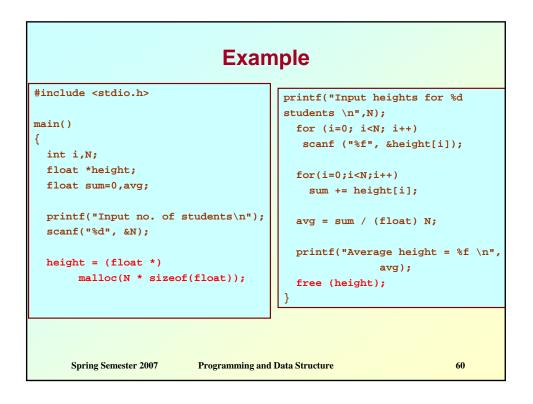


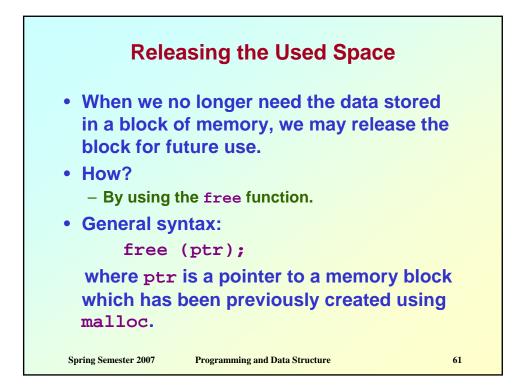


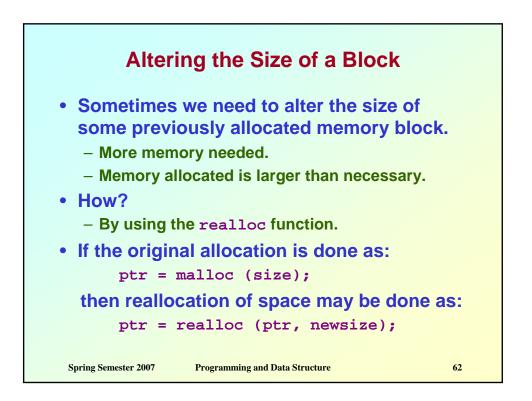


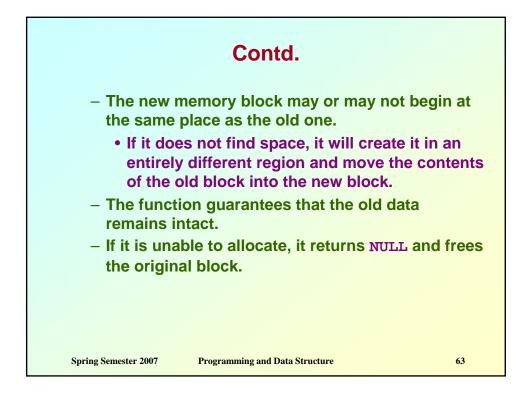


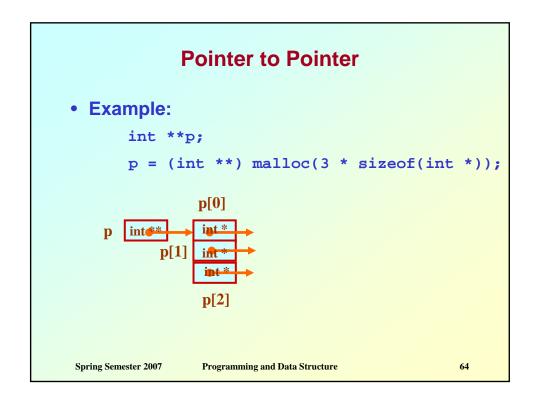


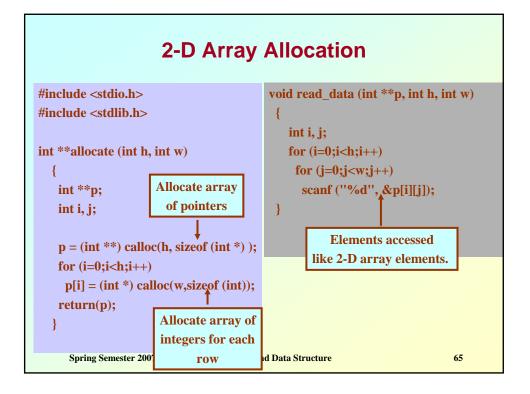




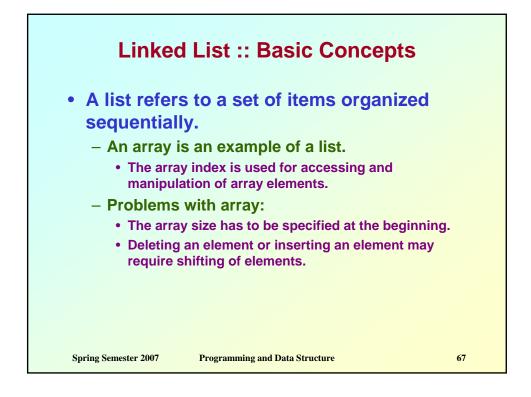


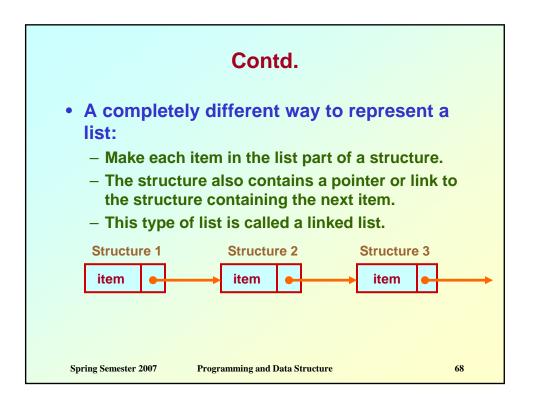


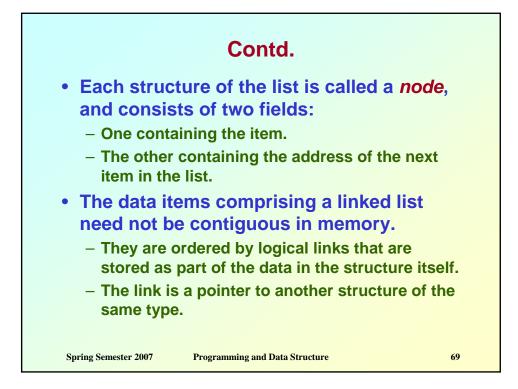


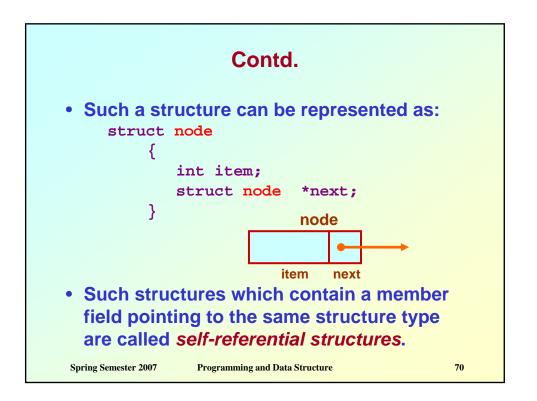


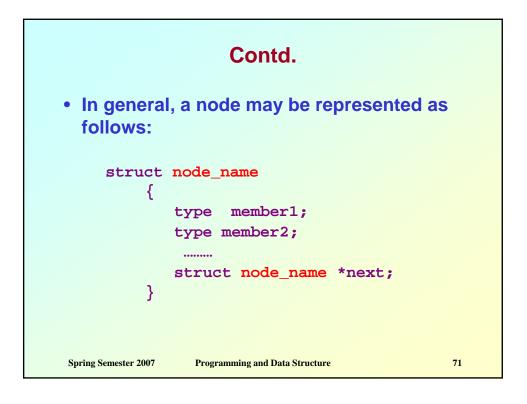
2-D Array: Contd.				
<pre>void print_data (int **p, in { int i, j; for (i=0;i<h;i++)< pre=""></h;i++)<></pre>	nt h, int w)	<pre>main() { int **p; int M, N;</pre>		
{ for (j=0;j <w;j++) '',="" (''%5d="" (''\n'');="" p[i][j="" printf="" th="" }="" }<=""><th>]); Give M and N 3 3 1 2 3 4 5 6</th><th><pre>printf ("Give M and N \n"); scanf ("%d%d", &M, &N); p = allocate (M, N); read_data (p, M, N); printf ("\nThe array read as \n"); print_data (p, M, N);</pre></th></w;j++)>]); Give M and N 3 3 1 2 3 4 5 6	<pre>printf ("Give M and N \n"); scanf ("%d%d", &M, &N); p = allocate (M, N); read_data (p, M, N); printf ("\nThe array read as \n"); print_data (p, M, N);</pre>		
Spring Semester 2007	7 8 9 The array read as 1 2 3 4 5 6 7 8 9	} Data Structure 66		

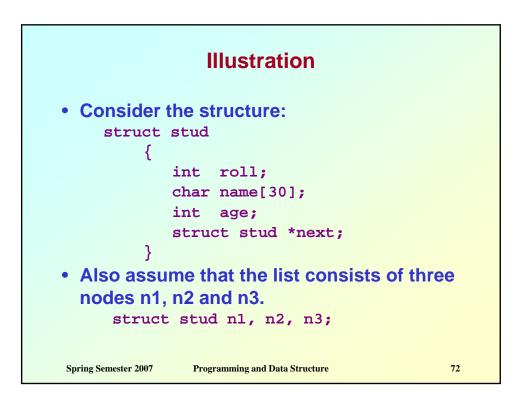


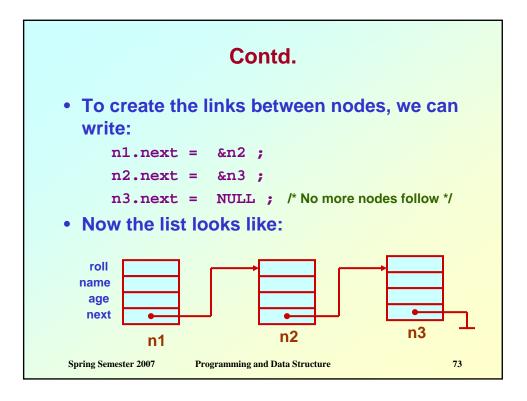












Example	
<pre>#include <stdio.h></stdio.h></pre>	
struct stud	
{	
int roll;	
char name[30];	
int age;	
<pre>struct stud *next;</pre>	
}	
<pre>main() { struct stud n1, n2, n3; struct stud *p;</pre>	
<pre>scanf ("%d %s %d", &n1.roll, n1.name, &n1.age);</pre>	
<pre>scanf ("%d %s %d", &n2.roll, n2.name, &n2.age);</pre>	
<pre>scanf ("%d %s %d", &n3.roll, n3.name, &n3.age);</pre>	
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```
n1.next = &n2 ;
n2.next = &n3 ;
n3.next = NULL ;
/* Now traverse the list and print the elements */
p = n1 ; /* point to 1<sup>st</sup> element */
while (p != NULL)
{
    printf ("\n %d %s %d",
    p->roll, p->name, p->age);
    p = p->next;
}
}
```

