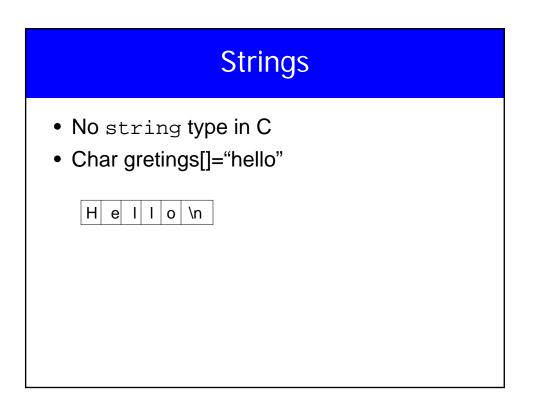
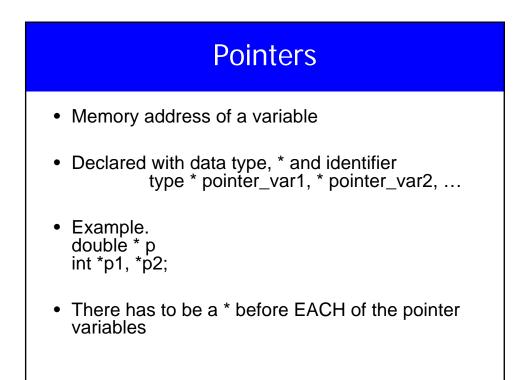
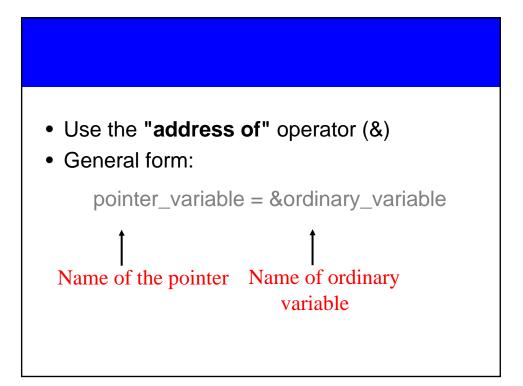


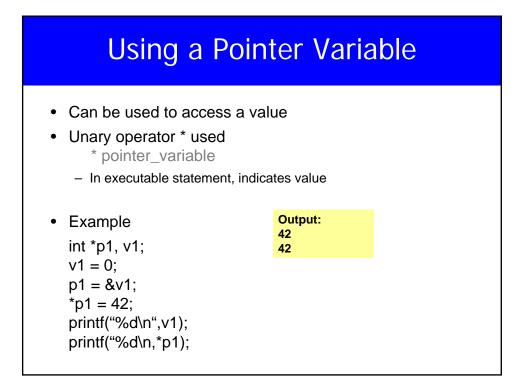
Array Access

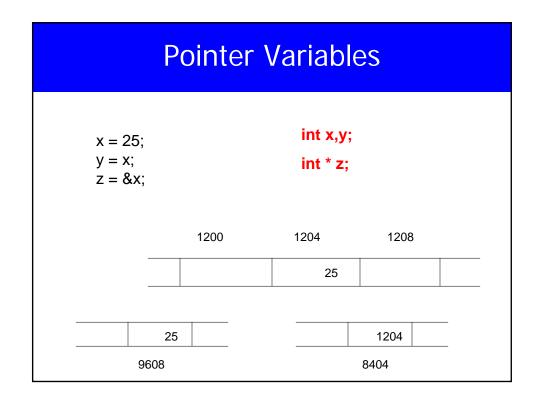
- X=ar[2];
- ar[3]=2.7;
- What is the differenc ebetween ar[i]++, ar[i++], ar[++i];

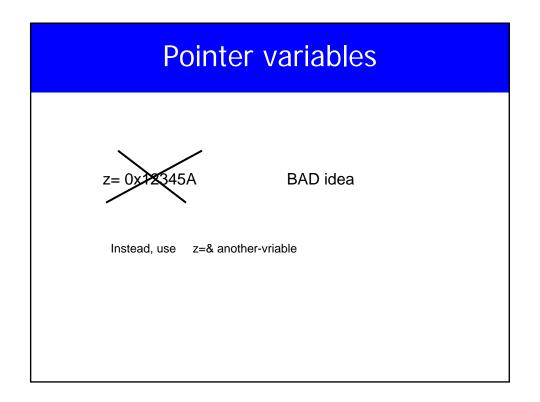


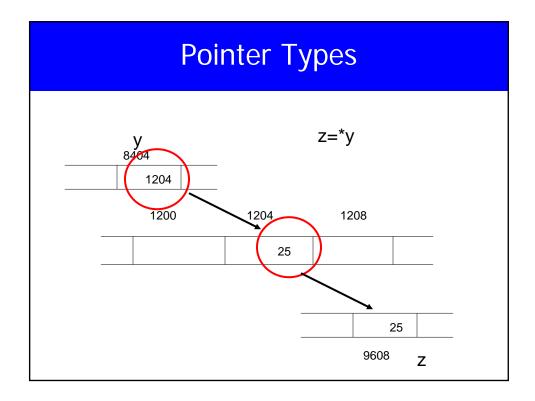


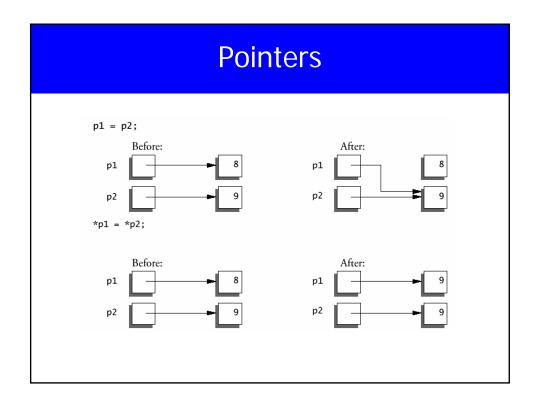








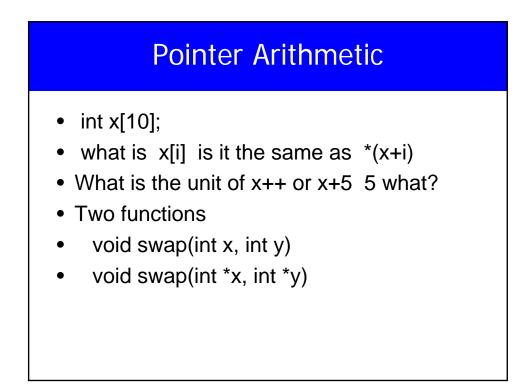


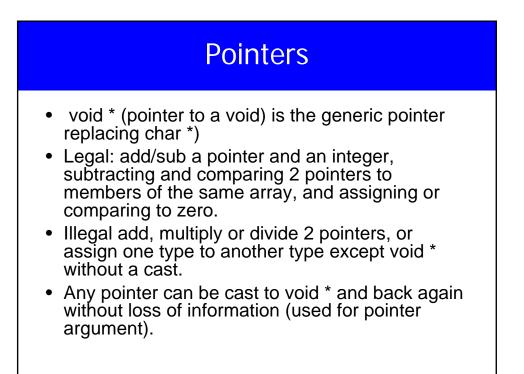


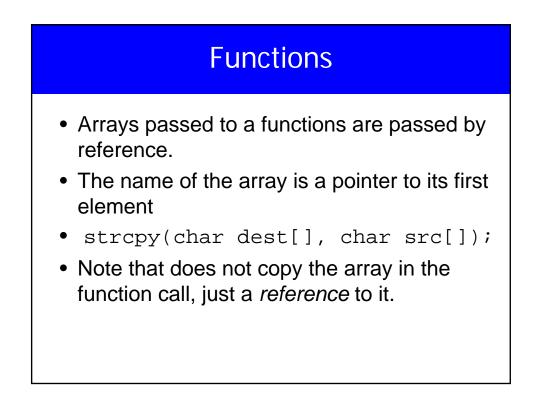
Pointers				
 identifier of an array is equivalent to the address of its first element – int numbers [20]; 				
int * p; p = numbers // Valid numbers = p // Invalid				
 p and numbers are equivalent and they have the same properties Only difference is that we could assign another value to the pointer p whereas numbers will always point to the first of the 20 integer numbers of type int 				

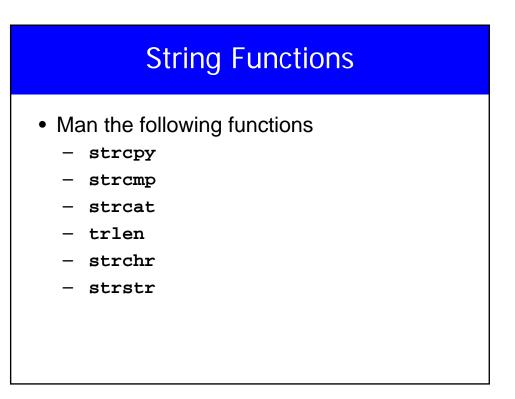
Pointer Arithmetic

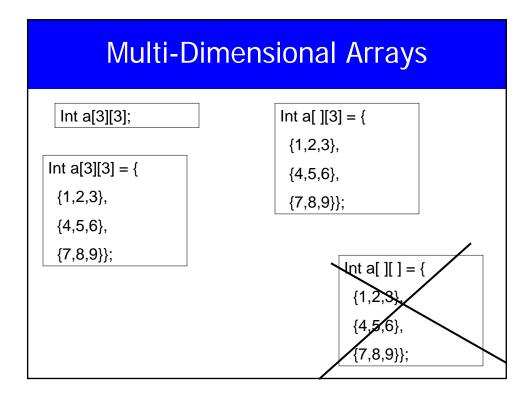
- int *x, *y
- int z;
- Can do
 - − z=x-y;
 - x=NULL;
 - if(c==NULL)
 - Also, what is void * ?

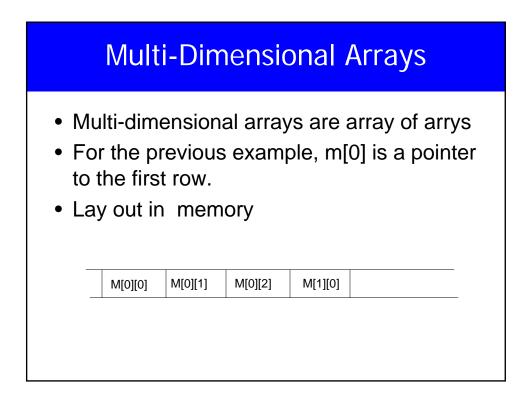




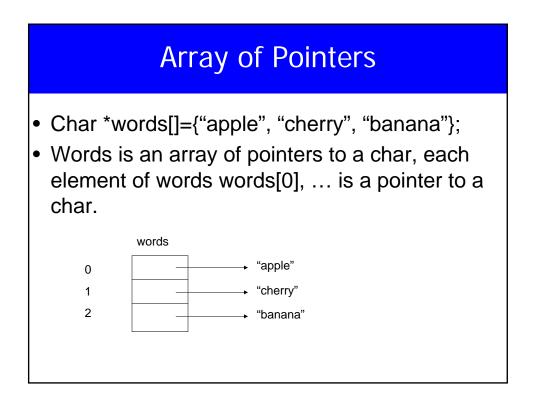


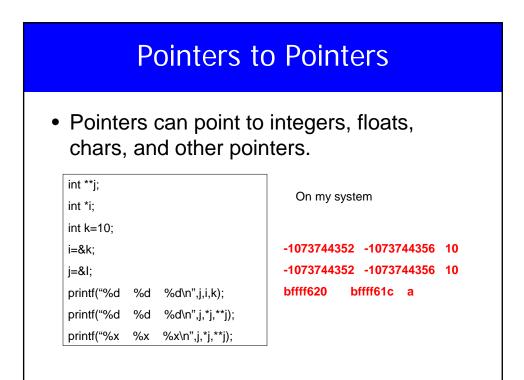


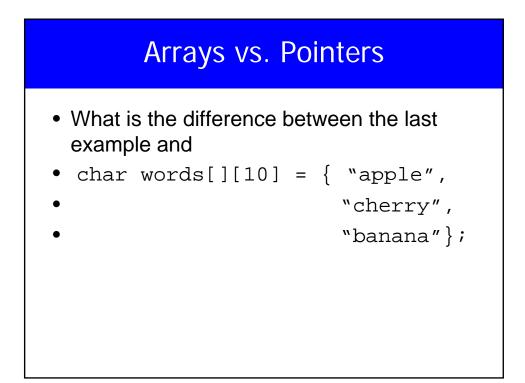




Multidimensional arrays				
 #include <stdio.h></stdio.h> 				
int main() {	36			
 float *pf; 	0.4000	0.5000	0.6000	
• float m[][3]={ {0.1, 0.2, 0.3},	0.6000	0.5000	0.4000	
• {0.4, 0.5, 0.6},				
• {0.7, 0.8, 0.9}};				
 printf("%d \n",sizeof(m)); 				
• pf=m[1];				
 printf("%f %f %f \n",*pf, *(pf+1), *(pf+2)); 				
 printf("%f %f %f \n",*pf, *(pf++), *(pf++)); 				
• }				

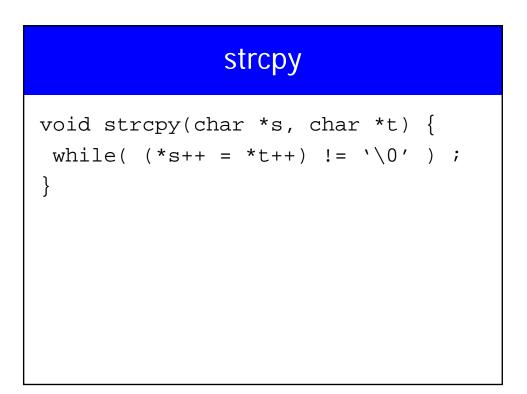


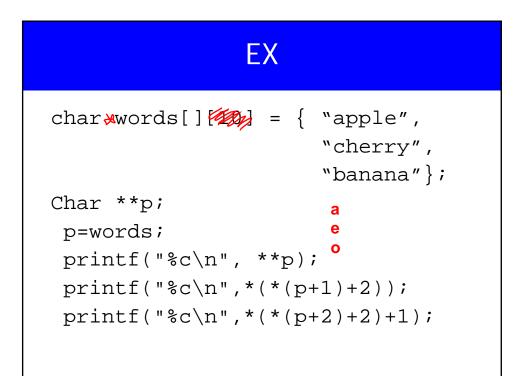




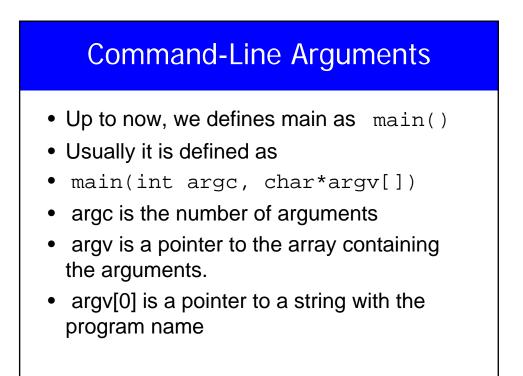
strcpy

```
void strcpy(char *s, char *t) {
  while( (*s = *t) != `\0' ) {
      s++;
      t++
      }
}
```

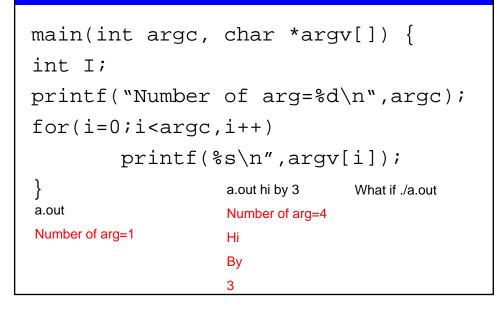




Char (*p2)[100]; char name[100]; char *p1; p1=name; p2=name; // What is the difference? Consider p1+1 and p2+1



Command-Line Arguments



Pointers to Functions

- Although functions are not variables, it is posible to assign a pointer to a function.
- That pointer could be manipulated, assigned, placed on arrays, or passed/returned to/by functions.

