Call by value / call by reference

int i, *p; // p is a "pointer" to int

p = &i; Make p point to location where

i is shoved

*p = 4; Dereference" p to update the

location pointed to by p

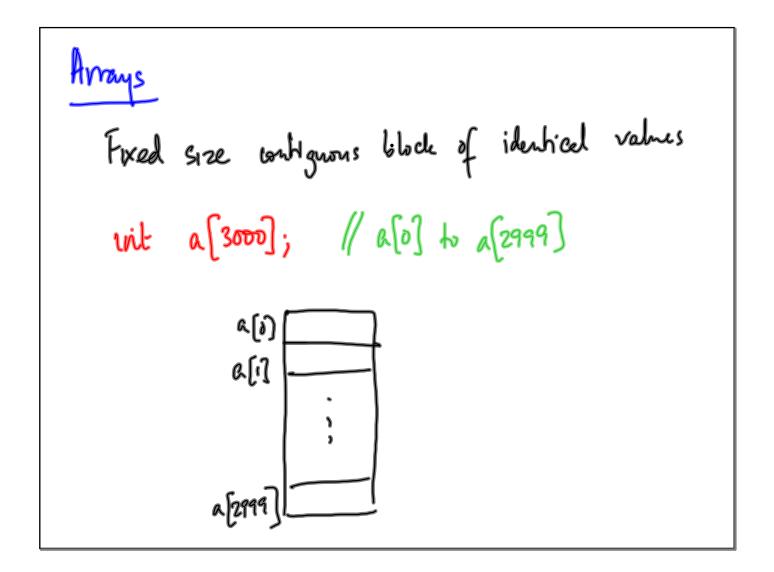
#include <stdio.h> Printf (format string, v1, v2, ..., vn); Value of %d is %d In", %d integer %f Hat %s string Scanf (format string, &v1, &v2); "%d %f" Larsitrary slutespace no messages in formet striy

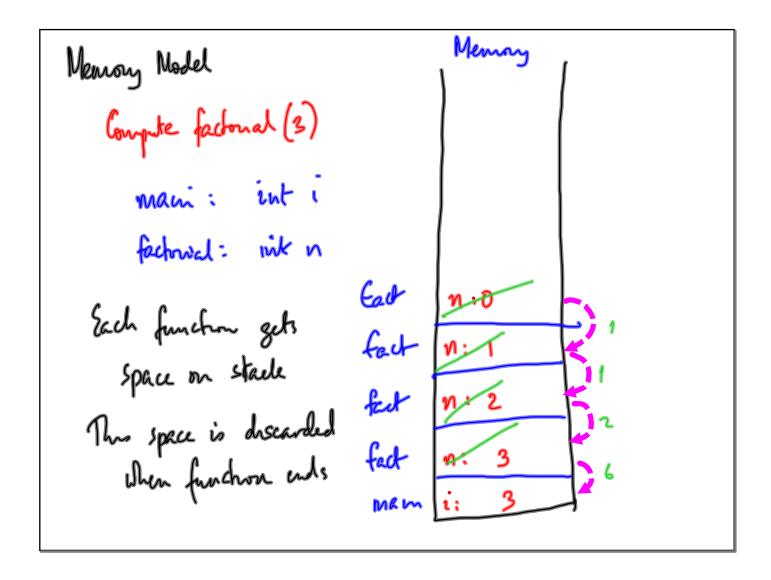
```
Stricture of C program: Collector of for,
                                  michading man
                                int factorial (int n) {
 If include (stdio.h)
                                    if (n == 0) {
 int main(){
                                        rehum (1);
    int is
                                   Jelse {
    printf ("Enter a number:");
                                       return (n x factorial (n-1))
    scenf ("%1", &i);
    printf ("%d ] = %d \n", i,
                   factorial(i));
```

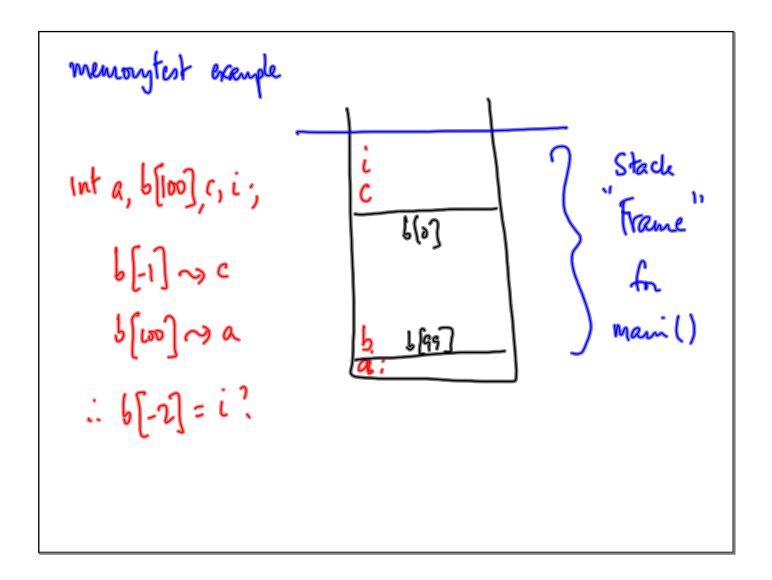
Compiling a a program:

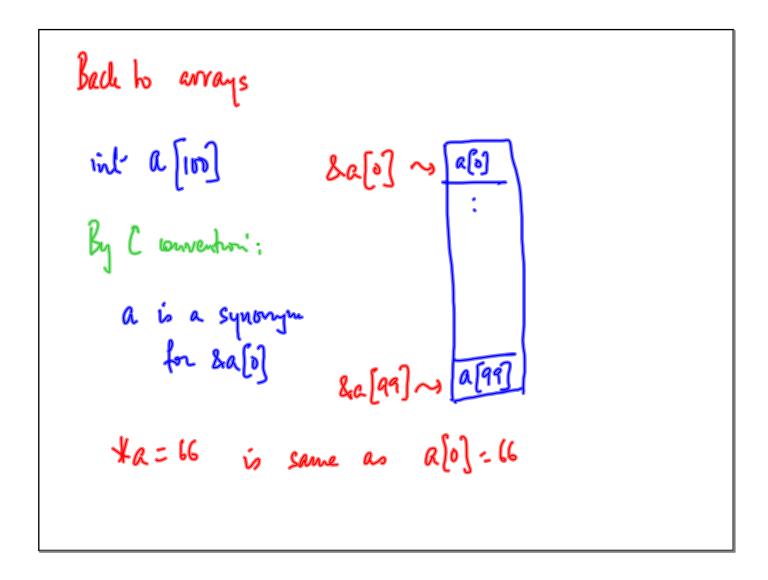
gee factorial.e > a.out

gee factorial.e -o factorial creates executable in "factorial"









Useful for passing averages by reference to functions

with Sort (Int of??)

Int **A

**Sort (& bfo?);

How does sort know size of a?

It does not? Must have an

extra argument to function to specify size

