-> Compile-time emore

```
Write a hondon that comb # of spaces in a string
    te a bonchon That corms 17 v.

or char s[]

int space Counter (char * s)?

This is more common
                  int count = 0;
             for (int i=0; s[i]='\0'; 1++){
                         if (s[i] ==' ') count + +;
               relum count;
What is the usage of 10'?
             To know the end of a string
In printing strings, prints will print characters until it
observes a null character
        char * s = "An example";
       point ("Sample whing is 1/05", 5);
                                   homet pecker of shing
    Will point

Sample obiny is the example points 4 characters

points ("Sample strong is %.45", s); points

Sample strong is the e
```

6) char *p = "Sample"; printf ("%s \n", p); Sample
will print sterling p[o] till it sees a \0'
printf ("%s \n", pt2); mple
will print starting p[z] till; f sees a \10' printf ("%c", xp); 5 printf ("% c", * (p+2)); m We also have puts(s); - 1 argument Input string: Ving Scanf to st [10]; scanf ("%s", st); Mushy not &st The prototype of scanf ("format specifier", address of Ist element in array

** scan f will ignore white spaces before charalters

** scan f will read until a white space (spaces, tab, return) * scanf will terminate the st array with bo good news - Thence typing , ABCD < enter > will some ABCD in st [A|B|C] -> It you type _____ABCD______f,f, <enter st will shore ABCD, and ff will be read by the next scant

gets (s); //just like sconf, but gets reads leading white spaces until ancerter, it excludes in character

Problem: (A major one) If char st [7+1]; scanf ("%s", st); And we type ABCDFFGHI We typed 9 characters to store in 8 character array, the characters will overflow the storage allocated in a phenom enon called "butter overflow". So extra characters will be shred on stack after the last chement in st. Vinsate as st con change raises of other variables What is safe? Standard file where input of beggisaired.

fgets (string, #of chars, stdin); string clearly say how many characters
rdentifier to read: # of chars - 1 to
lean 1 for 10 * There a a honorion that only reads I character getchar () and re hms the character read. char c; equivalul c= getchar (); (=) scanf ("%c", c);

6	
	Write a Function that safely reads from the user
	meaning reads only size-I characters and I character is left
	For '\0'
6	int main (roid) {
	char s [6];
	print f ("User is entering 905", get Shing Sakely (s, 6));
	3 rehm 0;
	char * get String Safely (char *s, int size) {
	int i= 0;
	char c;
	while (i < size - & & (c = getchur()) != 'ln')
	S [i]= c; (=i+1;
	3 s[i] = "\0'; return s;
•	return s;