```
#include <stdio.h>
int main()
{
    char str[10];
    char *p;
    p=str;
    printf("Enter a string:");
    gets(p);
    while(*p!='\0')
    {
        printf("\n%c",*p);
        p++;
    }
    return 0;
}
```

Some Now Shartcuts

$$\begin{array}{c|c}
\hline
D & ij(\alpha!=0) \\
\hline
S & j \\
S & j \\
\hline
S & j \\
\hline
S & j \\
S & j \\
\hline
S & j \\
S &$$

## Some More Shortcuts

## Previous Code Using Shortcut

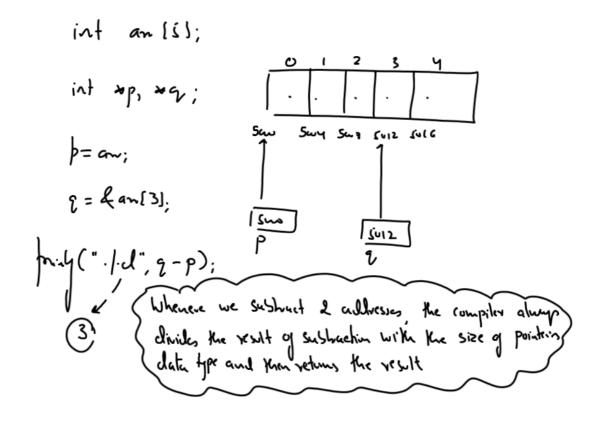
```
#include <stdio.h>
int main()
{
    char str[10];
    char *p;
    p=str;
    printf("Enter a string:");
    gets(p);
    while(*p)
    {
        printf("\n%c",*p);
        p++;
    }
    return 0;
}
```

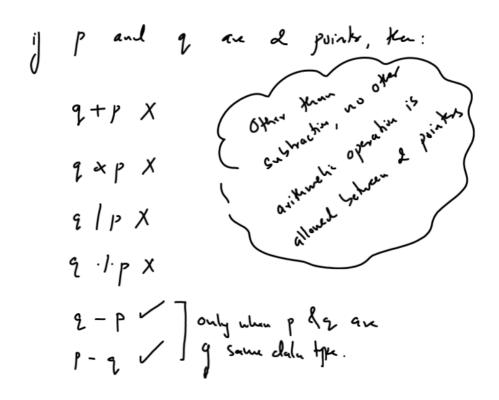
WAP to accept a string from the user and calc and print its length. You are allowed to use only:

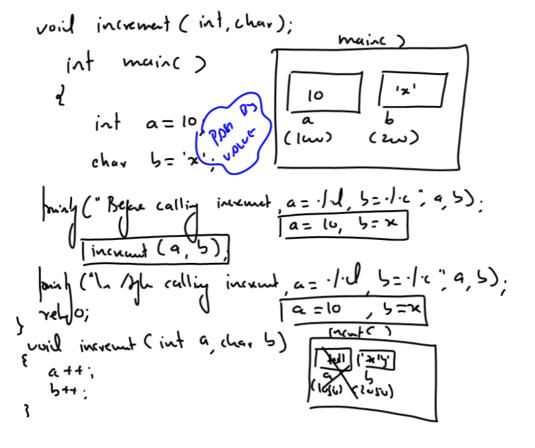
- 1. A char array
- 2. A char \*

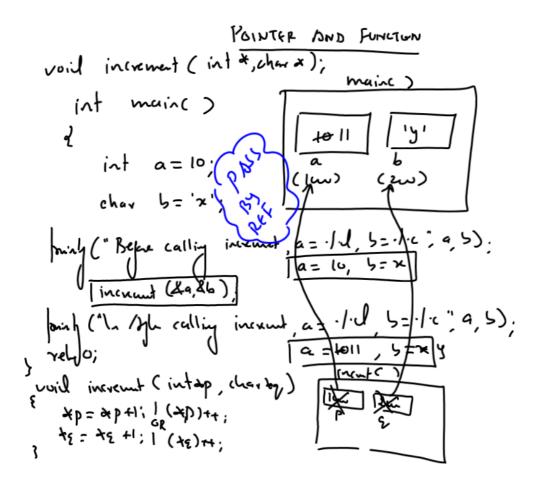
No extra variable or any string function must be used

```
#include <stdio.h>
int main()
{
    char str[10];
    char *p;
    p=str;
    printf("Enter a string:");
    gets(p);
    while(*p)
    {
        p++;
    }
    printf("Length=%d",p-str);
    return 0;
}
```









WAP to accept 2 integers from the user and pass them to a function called swap. Inside the function exchange the values of the variables. But print back the swapped values in main()

```
hanine )
void swap(int *,int *);
int main()
  int a,b;
  printf("Enter 2 int:");
  scanf("%d %d",&a,&b);
  printf("Before swapping a=%d,b=%d",a,b);
                         0=10, 5=20
 swap(&a,&b);
  printf("\nAfter swapping a=%d,b=%d",a,b);
  return 0;
                         a=20, 5=10
void swap(int *p,int *q)
  int temp;
  temp=*p;
  *p=*q;
  *q=temp;
}
```