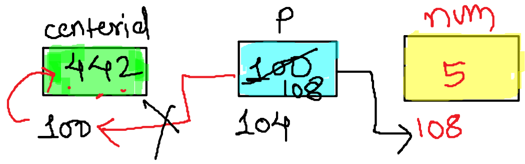
Friday, May 19, 2023 7:58 AM

Agenda
Qualifier - const
Basics of String
String library functions

int *p = &centerid



Const int *p =&centerid;

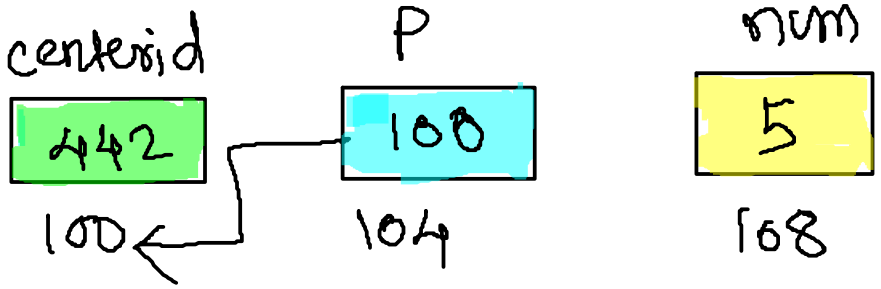
p = &num;

*p is constant

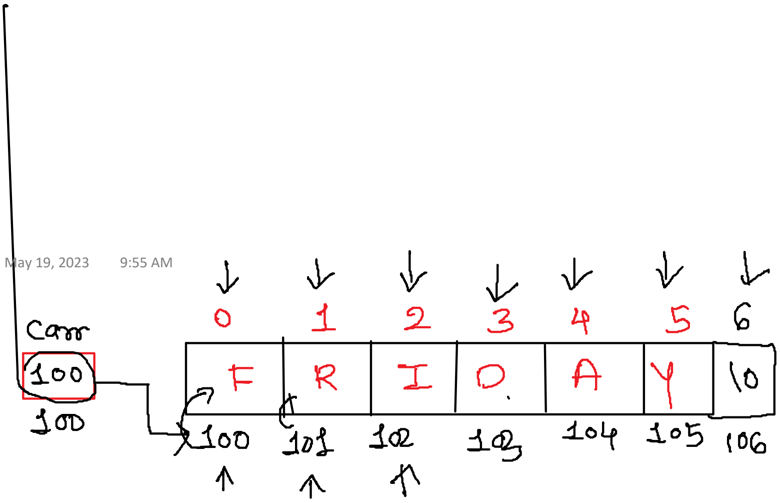
if p is pointing to centerid then green block is constant via p

if p is pointing num now value at p nothing but yellow block is const

Friday, May 19, 2023 9:31 AM



Friday, May 19, 2023 9:55 AM

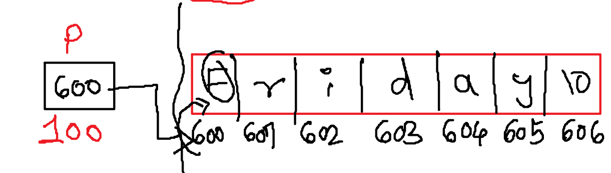


*(carr+i)

```
int i=0;
while(carr[i] != NULL )
{
    printf("%c",carr[i]);
    i++;
}
```

FRIDAY

char *p = "Friday" — Hardcoded Value → String literal constant



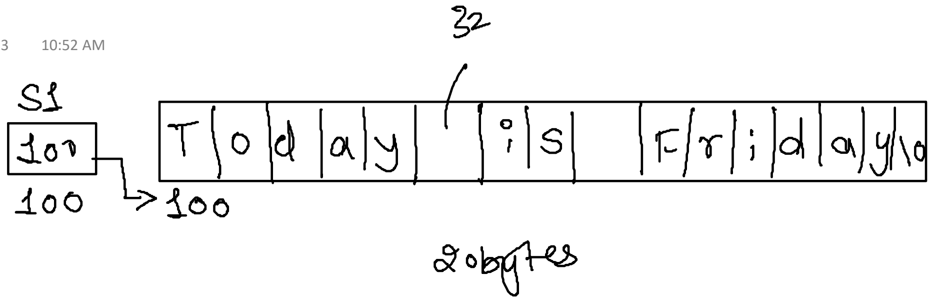
```
int main()
{
    char *p = "Friday";
    printf("size= %u \n",sizeof(p));
    printf("p=%u &p=%u p=%s\n",p,&p,p);
}
```

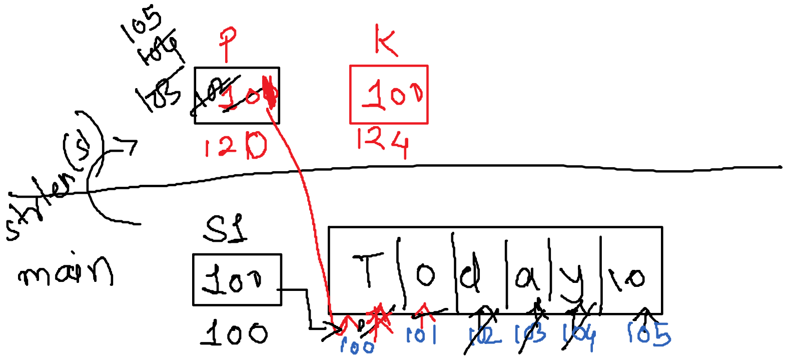
4bytes.
stack.

7bytes

Data Section – R.O – Read Only.

*p = 'f';





```
size_t strlen(const char *p)
{
  char *k = p;
  while(*p !=NULL)
  {
     p++;
  }
  return p-k;
}
```

'T' != NULL 'o' != NULL

'd' != NULL

105 - 100

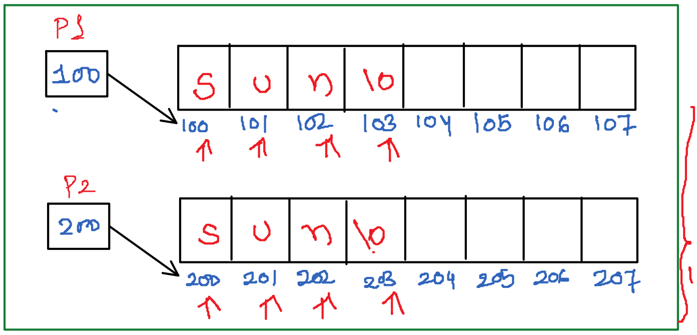
char add char add

p=p+1 100+1 = 101

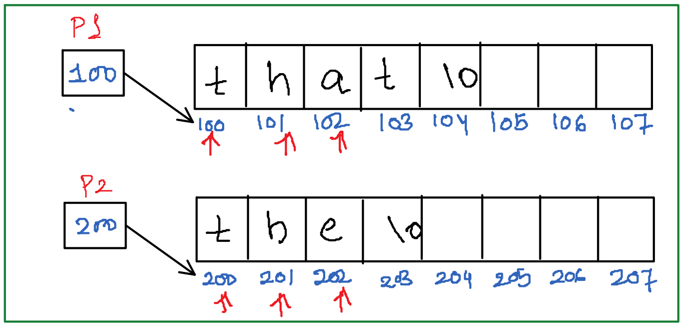
p=p+1 101+1 = 102 .

P=P+1 102+1 = 103

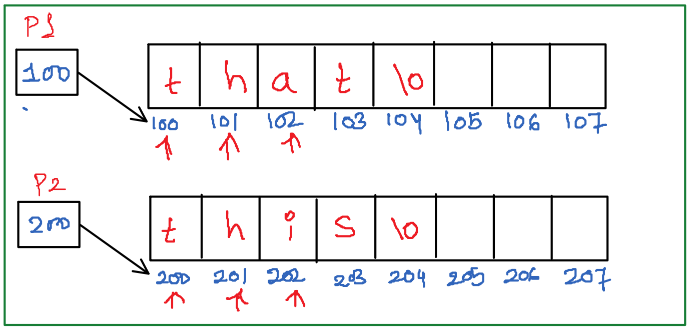
```
int mystrcmp(const char *p1,const char *p2)
{
    while(*p1!=NULL && *p2!=NULL)
    {
        if(*p1 != *p2)
            break;
        p1++;
        p2++;
    }
    return *p1 - *p2;   // '\0' -'\0' = 0-0=0
}
```



'\0' - '\0'



'a' - 'e' — Ascii value difference



'a' - 'i'