```
double quotes
                                           size definition unnecessary double quotes

char myString[] = "Hello";
                                          myString
                                                                  'e'
                                           myString 'H'
                                                                                            '\0'<mark>'\0'</mark>
                                                                  'e'
                                          myString
                                                      Main memory
                                                                               Code snippet
                                                           Stack
                                                                               1 char* pStr = "Wow";
                                                      address of char
                                                           Heap
                                                    Const + Global Variables
                                                            'o'
                                                            '\0'
                                                           Code
                                                      Main memory
                                                                               Code snippet
                                                           Stack
                                                                               1 char* pStr = "Wow";
                                                 pStr
                                                       address of char
                                                                               pStr = "Cat";
                                                           Heap
                                                     Const + Global Variables
                                                            '\0'
                                                            '\0'
                                                           Code
                                                       Main memory
                                                                               Code snippet
                                                           Stack
                                                                       1 char* pStr = "Wow";
2 char str[] = "It";
                                                       address of char
                                            2 str[0] str[1]
                                                            ʻI'
                                                            't'
                                               str[2]
                                                            '\0'
                                                                               \bigcirc pStr = str;
                                                           Heap
                                                     Const + Global Variables
                                                            'o'
                                                            'w'
                                                            '\0'
                                                           Code
                                                       Main memory
                                                                                Code snippet
                                                           Stack
                                                       address of char
                                                                                  char* pStr = "Wow";
                                               str[0]
                                               str[1]
                                                                                  char str[] = "It";
                                               str[2]
                                                            '\0'
                                                                                  pStr = str;
                                                                               1 pStr[1] = 's';
                                                                               2str[0] = 'i';
                                                           Heap
                                                     Const + Global Variables
                                                            'o'
                                                            '\0'
                                                           Code
                                                                char str[] = "Hello";
                                                                                                           prints characters from
                                                                printf("%s\n", str); \rightarrow str[0] to the character before '\0'
                                                    %s: format specifier for strings,
                                                                                     str is the array identifier,
                                                    and it requires a pointer to the
                                                                                      and a pointer to the first
                                                      first charcater in the string.
                                                                                       character in the string
                                                                char st[10];
                                                                scanf("%s", st);
                                                                         Why not &st?
                                                                st is the array identifier and also a
                                                                 pointer to the first element in the
                                                                  array. Hence, st is already an
                                                                             address.
                                                             #include <stdio.h>
                                                             int main(void) {
                                                                char st[10];
st
```

```
#include <stdio.h>
         int main(void) {
           char st[7 + 1];
           printf("Enter a string: \n");
           fgets(st, 3, stdin);
                                     ► stdin is a file defined
st is the array
                                      in stdio.h library
identifier and also a
                 we read 3 - 1 characters
pointer to the first
                 from the user and put an
element in the array
                 additional `\0`
           printf("st is saved as: %s\n", st);
           return 0;
```

```
User Input ABCD<enter>
st 'A' 'B' \0`
size 3
```