

# CPROGRAMING

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## Type qualifier – const

- const keyword inform compiler that the variable is not intended to be modified.
- Compiler do not allow using any operator on the variable which may modify it e.g. ++, --, =, +=, -=, etc.

 Note that const variables may be modified indirectly using pointers.
Compiler only check source code (and do not monitor runtime execution).



## Constant pointers

- int a = 10;
- const int \*ptr = &a;
- int const \*ptr = &a;
- int \* const ptr = &a;
- int \* ptr const = &a;
- const int \* const ptr = &a;
- const int \* const ptr = &a;



#### String

- String is character array terminated with '\0' character.
  - '\0' is character with ASCII value = 0.
- Example:
   char arr[5] = "abcde";
   int j;
   for(j=0; j<5; j++)
   printf("%c",arr[j]);</li>
- String input/output
  - char str[20];
  - scanf("%s",str); /\*Input\*/
  - printf("%s",str); /\*Output\*/
  - gets(str); /\*Input\*/
  - puts(str); /\*Output\*/
  - scanf("%[^\n]", str); // scan whole line



#### String functions

- C library have many string functions.
- They are declared in string.h
  - strlen() size\_t strlen(const char \*s);
  - strcpy() char\* strcpy(char \*dest, const char \*src);
  - strcat() char\* strcat(char \*dest, const char \*src);
  - strcmp() int strcmp(const char \*s1, const char \*s2);
  - strchr() char\* strcat(const char \*s, int ch);
  - strstr() char\* strstr(const char \*s1, const char \*s2);
  - strrev() char\* strrev(char \*s);





# Thank you!

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