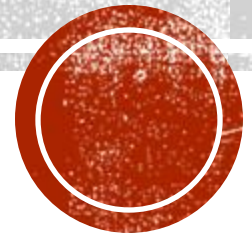# C LANGUAGE

NOTE

Chapter 10 : String in C

@STUDY_DISES

STRING

- The definition of string in C language is just like an array of "char type" .

- We can imagine that a char means a "letter", so an array of "chars" means many "letters". What it would be by an array of chars, we can imagine that it is a "string" easily.

ESCAPE CHARACTER

- Escape character is a "char" that wouldn't be appeared. For example , "\n" is an escape character.

- We can make a table to show some escape characters which are appeared frequently.

\n	New line
\0	the end of a string
\t	a tab
\a	Bell , an alarm sound
\'	Output " ' "
\"	Output " " "

"\n" and "\0" these two are very useful and important for us to do some string project. It is necessary to Keep these in mind.

INPUT AND OUTPUT A STRING

- In the second chapter, we memtioned some instruction letter like "%d" for integer, "%f" for float number , "%c" for a char.

- In the C language , we alse define a instruction letter for a string.

- We define that is "%s", so if we mention a string and do a program to input and output it. It would be written becoming

- char string[100] ;

- scanf("%s" , string) ; //the string type we don't use "&" before the variable name

-                                //we will discuss about it when we get to the "pointer" chapter

- printf("%s\n" , string) ;

SAMPLE PRACTICE

- Practice 10 :
Zerojudge a001:
Link : https://zerojudge.tw/ShowProblem?problemid=a001

ANSWER OF SAMPLE PRACTICE-1
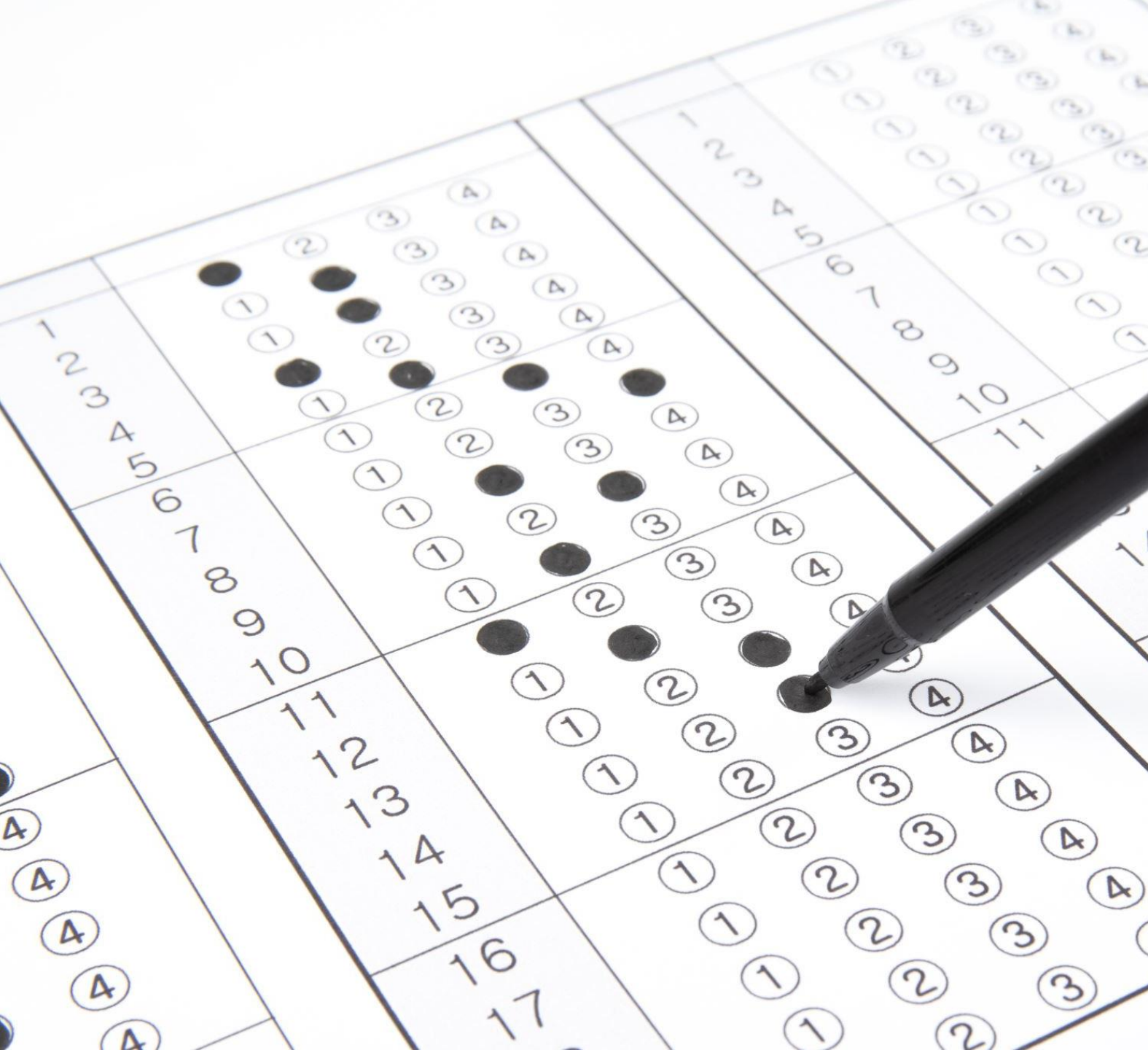
```c
1  #include <stdio.h>
2  int main ( )
3  {
4      char s[1000] ;
5      while ( scanf( "%s" , s ) != EOF )
6      {
7          printf( "hello, %s\n" , s ) ;
8      }
9      return 0 ;
10 }
```

ADVANCED PRACTICE

- Advanced Practice 10 :
  - Zerojudge g006:
  - Link : https://zerojudge.tw/ShowProblem?problemid=g006
  - Hint :
  - We would use the strlen() function to do this.
  (strlen() is in the #include <string.h>)
  - strlen(string) would return the length of the string.

IF YOU WANT FULL OF THIS NOTE AND THE ANSWER OF ADVANCED PRACTICE

- Please follow this IG @study_dises.

- Tag two friend under this post.

- Share this post to your Story and tag this account , make a screenshot and send to me.

- Then I will give you the link.

- @study_dises