

Lab 6.8.13.1 Disjoint compilation

Objectives

Familiarize the student with:

- Disjoint compilation
- Header files
- Printing on screen

Scenario

Write a program that prints two triangles: one is a normal triangle consisting of backslashes and the other is a Floyd's triangle. Remember to escape the backslash with a backslash (not a play on words!). A Floyd's triangle consisting of numbers in consecutive order: in the first row, we have only one number: 1; in the second row, two numbers: 2 3; in the third row: 4 5 6 and so on. Your program should ask the user for the size of both triangles (just one number - the triangles should be the same size). After that, your program should print both triangles. To print the Floyd's triangle, you may use the "%3d" format in *printf*. Divide your program into files: one file for the classic triangle function, one for the Floyd's triangle function, one header file with the prototypes of both functions, and finally a file with the *main* function. Practice adding and removing files from your program/project/solution. If you can, test it in different environments (different OS/different IDE/no IDE). Your version of the program must print the same result as the expected output.

Note: not all online compilers allow you to create a project of many files.

```
#include <stdio.h>
/* your code that includes a header*/

int main()
{
    /* your code */
    return 0;
}
/* other files with your code */
```

Example input

15

[illegible]

Example output

1			
2	3		
4	5	6	
7	8	9	10