Q1: Write a program le1q1.c that:

- 1. Prompts the user to enter an integer 0<N<10
- 2. Prints 2N+1 lines, where the middle line displays the integers 0 to N, and the line above and the line below displays the integers 0 to N-1 and so on.

The first line and the last line displays o only.

Note: Provided samples are when the user enters N=4, N=5 and N=6 respectively.

0	0	0
01	01	01
012	012	012
0123	0123	0123
01234	01234	01234
0123	012345	012345
012	01234	0123456
01	0123	012345
0	012	01234
	01	0123
	0	012
		01
		0

Q2: Write a program le1q2.c that:

- 1. Prompts the user to enter a sentence
- 2. Copies all characters in the read string to a new string, replacing:
 - the tab character with the visible escape sequence \t
 - the single quotation character ' with the visible escape sequence \'
 - the double quotation character " with the visible escape sequence \"
- 3. Prints the new string to the output
- 4. Asks the user if he/she wants to enter another sentence. If the user enters 'y' the program repeats until the user enters 'n'.

Note1: remember that you are replacing a character with two characters

Note2: Assume 1000 letters is the maximum length of the sentence and the result.

Sample run:

```
Please enter a sentence:
This is a test to see "the result of replacing" some characters with "visible escape sequence" and keeping others intact
This is a test\tto see \"the result of replacing\" some characters with \"visible escape\tsequence\" and keeping others intact
Do you want to analyse another sentence (y/n):y

Please enter a sentence:
An other 'example to demonstrate' how to replace tabs, single quotations and 'double quotations' with visible escape sequences
An other \'example to demonstrate\' how\tto replace tabs, single quotations and \'double quotations\' with visible escape sequences
Do you want to analyse another sentence (y/n):n
Good bye
```