Write a c program with the required number of pipe() and fork system calls to implement the following piping mechanism:

$cat input.txt|grep COMP|wc|wc -w

The final output of the above piping mechanism must be stored in the file output.txt

Content of input.txt :-

Welcome to Ontario

Welcome to Windsor

Welcome to COMP 8567

Univ of Windsor

Welcome to COMP 8567

Univ of Windsor

Welcome to COMP 8567

Welcome to COMP 8567

Welcome to COMP 8567

Submit Lab7.c, Lab7.txt, output.txt