Solve the problem below. You have *25 minutes*. After you are done, rename the file containing your source code as your student ID (so, if your student ID is 2005001, the name of your file should be 2005001.c). Then submit that file to Moodle. Make sure you submit a file containing the source code.

Failure to follow these instructions will result in penalties.

Problem 1.

1. Suppose you call a substring of a string "**good**" if it has **no repeating characters**. Write a C program that takes a string as input and returns the length of the largest "**good**" substring.

   Example:
   abcdeab
   Largest "good" substring's length: 5 (abcde or bcdea)

Input	Output
abcdeab	5
aaaa	1
ab**abc**	3

N.B.

★ You **can** use the library function **strlen()**, if needed.

★ You **can** assume that the provided input will **always** be valid.