

Online Assignment on Pointers and Strings (A2)

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 |
| ababc | 3 |

N.B.

- ★ You **can** use the library function **strlen()**, if needed.
- ★ You **can** assume that the provided input will **always** be valid.