

Online Assignment on String and pointer (B2)

Solve the problem below. You have **30 minutes**. After you are done, rename the file containing your source code as your student ID (so, if your student ID is 2005091, the name of your file should be **2005091.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.

Implement the following C function “**is_start_with**” properly with the following prototype. You **cannot** use any string function (i.e. strlen, strcmp) for this. [5]

```
/*
returns 1 if string pointed by s starts with the string pointed by k,
    0 otherwise
i.e.    is_start_with("abcdef", "ab") returns 1
        is_start_with("abcdef", "bc") returns 0
You cannot change the function signature
*/
int is_start_with(char *s, char *k);
```

Now write a C program that takes two strings **S** and **k** as input. It should print all the **suffixes** in **S** that start with **k** using the above “**is_start_with**” function. You **must** use **pointers and pointer arithmetic** to call the function, find and print the suffixes i.e. you **cannot** use array indexing anywhere for this task. [5]

Sample Input	Sample Output
abcdefghabpq ab	abcdefghabpq abpq
Hello World l	llo World lo World ld
Hello World ll	llo World
Hello World abc	

N.B.

- ★ You ***can not*** use any **string** function (i.e. **strlen**, **strcmp**) for this task.
- ★ You ***can not*** use any **global** or **static** variables while solving this problem.
- ★ You ***can not*** use any library function for this task (other than **I/O**).
- ★ You ***can*** assume that the provided input will ***always*** be valid.
- ★ You ***must*** use **pointers** as mentioned in the question.
- ★ You ***can not*** use **array indexing** anywhere.