

```

/*****
/*HW07_part1.c
/*
/*Written by Mustafa Akilli on April 12, 2015
/*
/*Description
/*
/* How many times a given string is used in a given string.
/*Inputs:
/* -First Given String
/* -Second Given String
/*Outputs:
/* How many times second given string is used in first given string.
/*****
/*
/*-----*/
/* Includes
#include <stdio.h>
/*-----*/

int find_size(const char *string);
int char_number(const char *string, const char *wish_to_find);

int
main(void){

    int size;

    size=char_number("asasas sasas","sasas");

    printf("size:%d\n",size);

    return 0;
}

/* A recursive function that finds and returns size of a string. */
int find_size(const char *string)
{
    int size;

    if(string[0]=='\0')
    {
        size = 1;
    }

    else
    {
        size=find_size(&string[1]);
        ++size;
    }

    return size;
}

/* Finds how many times second given string is used in first given string. */
int char_number(const char *string, const char *wish_to_find)
{
    int size_string;
    int size_wish_to_find;
    int how_many_times=0,i;

    size_string=find_size(string);
    size_wish_to_find=find_size(wish_to_find);

    if(size_string>=size_wish_to_find)
    {

        for(i=0;string[i]==wish_to_find[i];++i)
        {
            if(i==size_wish_to_find-2)
            {

```

```
        how_many_times=1;

        if(size_string>=size_wish_to_find)
        {
            how_many_times+=char_number(&string[1],wish_to_find);
        }
    }
}

if(size_string>=size_wish_to_find)
{
    if(how_many_times==0)
    {
        how_many_times+=char_number(&string[1],wish_to_find);
    }
}

return how_many_times;
}
/*#####*/
/*                                End of HW07_part1.c                                */
/*#####*/
```