

7. (b) Test 7

Test Summary

- No. of Sections: 2
- No. of Questions: 3
- Total Duration: 45 min

Section 1 - Coding Proficiency

Section Summary

- No. of Questions: 2
- Duration: 30 min

Additional Instructions:

None

Q1. **Find n2 in n1**
Input: num1 and num2 such that 0 <= num1 <= 99999999 and 0 <= num2 <=9. You have to find number of occurrences of input num2 in input num1 and return it with function int isOccured(int num1, int num2).

Input Format

Input contains num1 and num2

Output Format

print the count

Constraints

0 ≤ num1 ≤ 99999999
0 ≤ num2 ≤ 9

Sample Input

Sample Output

199294 9	3
----------	---

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. **Find and Replace**
Find a sub string in a given string and replace it with another string

Input Format

contains the original string , find_string and the replace_string

Output Format

Print the altered string

Constraints

1<= strLength <=200
1<= fins,replace <= 20

Sample Input

Sample Output

Lazy girl girl boy	Lazy boy
--------------------------	----------

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Section 2 - Essay Writing

Section Summary

- No. of Questions: 1



- Duration: 15 min

Additional Instructions:

None

Q1. **ESSAY WRITING**

Do you agree or disagree with this statement? Your response should explore both sides of the arguments.

Directions

The educational achievements of any person depends largely on family, friends and society.

Keywords



Answer Key & Solution

Section 1 - Coding Proficiency

Q1

Test Case

Input

Output

1222212 2	5
-----------	---

Weightage - 5

Input

Output

1001010 0	4
-----------	---

Weightage - 5

Input

Output

23567 1	0
---------	---

Weightage - 10

Input

Output

5833003 3	3
-----------	---

Weightage - 10

Input

Output

2444 4	3
--------	---

Weightage - 10

Input

Output

18788555 5	3
------------	---

Weightage - 10

Input

Output

55555 0	0
---------	---



Weightage - 10

Input

94492221 1

Output

1

Weightage - 10

Input

75834527 7

Output

2

Weightage - 10

Input

68563775 6

Output

2

Weightage - 10

Input

46330579 0

Output

1

Weightage - 10

Sample Input

199294 9

Sample Output

3

Solution

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    int num1,test,num2,pow=1,digit,count=0,ctr;

    scanf("%d %d",&num1,&num2);
    count=0;
    pow=1;
    while((num1/pow)!=0)
    {
        digit=(num1/pow)%10;
        if(digit==num2)
            count++;
    }
```

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int main() {

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    while((num1/pow)!=0)
    {
        digit=(num1/pow)%10;
        if(digit==num2)
            count++;
    }
```



```
        pow*=10;

    }
    printf("%d",count);

    return 0;
}
```

```
        pow*=10;

    }
    printf("%d",count);

    return 0;
}
```

Q2

Test Case

Input

Output

Lazy boy
boy
girl

Lazy girl

Weightage - 10

Input

Output

Lazy girl
girl
boy

P F Lazy girl

Weightage - 10

Input

Output

The idea is to traverse the original string and
the
THE

The idea is to traverse THE original string and c

Weightage - 10

Input

Output

India Gate is without a doubt one of the most re
India
INDIA

INDIA Gate is without a doubt one of the most rec

Weightage - 10

Input

Output

Aesop's fable of the Tortoise and the Hare When
lion
Hare

Aesop's fable of the Tortoise and the Hare When

Weightage - 10

Input

Output

Rich history and gold gilded exterior are the hig
gold
Golden

Rich history and Golden gilded exterior are the h

Weightage - 10



Input

Output

This 16th century Charminar monument in Hyderabad
when
where

This 16th century Charminar monument in Hyderabad

Weightage - 10

Input

Output

Meenakshi Temple is said to have the finest India
Madurai
MADURAI

Meenakshi Temple is said to have the finest India

Weightage - 10

Input

Output

The idea is to traverse the original string and
occurs
occurrence

The idea is to traverse the original string and c

Weightage - 10

Input

Output

Madurai is one of the major cities in the Indian
Vaigai
Vai

Madurai is one of the major cities in the Indian

Weightage - 10

Sample Input

Sample Output

Lazy girl
girl
boy

Lazy boy

Solution

```
// C program to search and replace
// all occurrences of a word with
// other word.
#include <stdio.h>
#include <string.h>
#include <stdlib.h>

// Function to replace a string with another
// string
char *replaceWord(const char *s, const char *oldW,
                  const char *newW)
{
    char *result;
    int i, cnt = 0;
    int newWlen = strlen(newW);
    int oldWlen = strlen(oldW);

    // Counting the number of times old word
    // occur in the string
    for(i = 0; s[i] != '\0'; i++)
```



```

{
    if (strstr(&s[i], oldW) == &s[i])
    {
        cnt++;

        // Jumping to index after the old word.
        i += oldWlen - 1;
    }
}

// Making new string of enough length
result = (char *)malloc(i + cnt * (newWlen - oldWlen) + 1);

i = 0;
while (*s)
{
    // compare the substring with the result
    if (strstr(s, oldW) == s)
    {
        strcpy(&result[i], newW);
        i += newWlen;
        s += oldWlen;
    }
    else
        result[i++] = *s++;
}

result[i] = '\0';
return result;
}

```

```

// Driver Program
int main()
{
    char str[1000]; // = "xxforxx";
    char c[1000]; // = "xx";
    char d[1000]; // = "Geeks";

    char *result = NULL;
    scanf("%[^\\n]s", str);
    getchar();
    scanf("%[^\\n]s", c);
    getchar();
    scanf("%[^\\n]s", d);

    // oldW string
    //printf("Old string: %sn", str);

    result = replaceWord(str, c, d);
    printf("%s", result);

    free(result);
    return 0;
}

```

```

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// all occurrences of a word with
// other word.
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#include <string.h>
#include <stdlib.h>

// Function to replace a string with another
// string

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            // Jumping to index after the old word.
            i += oldWlen - 1;
        }
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    while (*s)
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        {
            strcpy(&result[i], newW);
            i += newWlen;
            s += oldWlen;
        }
        else
            result[i++] = *s++;
    }

    result[i] = '\0';
    return result;
}

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int main()
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    getchar();
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    // oldW string
    //printf("Old string: %sn", str);

    result = replaceWord(str, c, d);
    printf("%s", result);

    free(result);
    return 0;
}

```


Section 2 - Essay Writing

- Q1
- Sample Essay
- No Essay

Keywords

EDUCATIONAL, ACIEVEMENTS, PERSON, DEPENDS, FAMILY, FRIENDS, SOCIETY,

