

Institute of Computer Technology
B. Tech. Computer Science and Engineering
Sub: ESFP – I
Assignment-2

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In a Galaxy of Tilky Way, there was a planet Tarth where the sport of Tompetitive Toding was very popular. According to legends, there lived a setter known for his love with crispy string implementation problems.

- Thef loves 'T's!! He especially likes words like 'Todechef', 'TCDSAP' and 'Tompetitive Toding'. Since everyone else also liked them, he made a problem on it!! A sentence is a collection of words separated by a single space.
- Given a sentence, with letters being in any case (i.e. uppercase or lowercase) do the following for each word in the sentence- If the first character is not a vowel, replace it with 'T' If the first character of the word is a vowel, append a 'T' in front of the word. Make sure that only the first character of the word is capitalized.
- You will be given multiple sentences in the input, separated by a newline. Do this for each sentence and print the output.

CODE:-

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

char tolower1(char a)
{
    int i;
    char Alfa[] = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
    char alfa[] = "abcdefghijklmnopqrstuvwxyz";

    for (i = 0; i < 26; i++)
    {
        if (a == Alfa[i])
        {
            a = alfa[i];
            break;
        }
    }
    return a;
}
```

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}
int vowelcheck(char a)
{
    char vo[5] = "aeiou";

    for (int i = 0; i < 5; i++)
    {
        if (vo[i] == a)
        {
            return 1;
        }
    }
    return 0;
}
void main()
{
    char in[1000][100];
    char out[1000][100];
    char com = '0';
    int d = 1, t, temp = 0;
    int ot = 0;
    char T = 'T';
    char space = ' ';
    char alfa[] = "abcdefghijklmnopqrstuvwxyz";
    int loop = 1;

    for (int i = 0; i < t; i++)
    {
        gets(in[d]);

        t = in[d][0] == com ? i : i + 5;
        d++;
    }
    for (int i = 0; i < d - 1; i++)
    {
        for (int j = 0; j < strlen(in[i]); j++)
        {
            in[i][j] = tolower1(in[i][j]);
        }
    }
    for (int i = 0; i < d - 1; i++)
    {
        for (int j = 0; j < strlen(in[i]); j++)
        {

```

```

        if (j == 0)
        {

            strncat(out[i], &T, 1);

            if (vowelcheck(in[i][j]) == 0)
            {
                j += 1;
            }
            strncat(out[i], &in[i][j], 1);

            // j+= temp == 4?2:0;
        }
        else if (in[i][j] == ' ')
        {
            strncat(out[i], &space, 1);

            strncat(out[i], &T, 1);

            if (vowelcheck(in[i][j + 1]) == 0)
            {
                j += 2;
            }
            else
            {
                j++;
            }

            strncat(out[i], &in[i][j], 1);
            // j+= temp == 4?2:0;
        }

        else
        {
            strncat(out[i], &in[i][j + ot], 1);
        }
    }
}
for (int i = 0; i < d; i++)
{
    printf("%s", out[i]);
    printf("\n");
}
}

```

Output:-

```
PS C:\Users\dwijd\Downloads\esfp-1 Prcticals> cd "c:\Users\dwijd\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Assignment-1\" ; if ($?) { gcc
An aPPLe a day keeps Doctor Away
CCDSap
Preparation begins at HoMe
I love CodeChef and CHef
0

Tan Tapple Ta Tay TeePs Tactor Taway
Tcdsap
TrepARATION Tegins Tat Tome
Ti Tove Todechef Tand Thef

PS C:\Users\dwijd\Downloads\esfp-1 Prcticals\ESFP-1_Practicals_codes\Assignment-1> 
```