 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 5	Name : Pushti Depani	
Day : 24	Date : 10/11/2022	Enrollment No: 92000133018

CP Club 365Days Challenge

Date – 10/11/2022

Programming language – only C language

Problem Statement

Code must be in C language only

<https://www.hackerrank.com/challenges/designer-pdf-viewer/problem?isFullScreen=true>

Your Code:

```


#include <assert.h>
#include <ctype.h>
#include <limits.h>
#include <math.h>
#include <stdbool.h>
#include <stddef.h>
#include <stdint.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

char* readline();
char* ltrim(char*);
char* rtrim(char*);
char** split_string(char*);

int parse_int(char*);

/*
 * Complete the 'designerPdfViewer' function below.
 *
 * The function is expected to return an INTEGER.

```

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```

* The function accepts following parameters:
* 1. INTEGER_ARRAY h
* 2. STRING word
*/

```

```

int designerPdfViewer(int h_count, int* h, char* word) {
    int alpha=0;
    for (int i=0; i<(strlen(word));i++) {
        if(h[word[i]-97]>alpha){
            alpha=h[word[i]-97];
        }
    }
    return alpha*(strlen(word));
}

```

```

// for(int h_i = 0; h_i < 26; h_i++){
//     scanf("%d",&h[h_i]);
// }
// int len=strlen(word);
// if(len==0)
//     exit(0);
// int temp=h[word[0]-97];
// for(int i=1;i<len;i++)
//     {
//         if(temp<h[word[i]-97])
//             temp=h[word[i]-97];
//     }
// printf("%d",temp*len);
// return 0;

```

```

}

```


```

int main()
{
    FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");

    char** h_temp = split_string(rtrim(readline()));

    int* h = malloc(26 * sizeof(int));
}

```

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```

for (int i = 0; i < 26; i++) {
    int h_item = parse_int(*(h_temp + i));

    *(h + i) = h_item;
}

char* word = readline();

int result = designerPdfViewer(26, h, word);

fprintf(fp_ptr, "%d\n", result);

fclose(fp_ptr);

return 0;
}

char* readline() {
    size_t alloc_length = 1024;
    size_t data_length = 0;

    char* data = malloc(alloc_length);

    while (true) {
        char* cursor = data + data_length;
        char* line = fgets(cursor, alloc_length - data_length, stdin);


        if (!line) {
            break;
        }

        data_length += strlen(cursor);

        if (data_length < alloc_length - 1 || data[data_length - 1] == '\n') {
            break;
        }

        alloc_length <= 1;

```

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```

data = realloc(data, alloc_length);

if (!data) {
    data = '\0';

    break;
}

if (data[data_length - 1] == '\n') {
    data[data_length - 1] = '\0';

    data = realloc(data, data_length);

    if (!data) {
        data = '\0';
    }
} else {
    data = realloc(data, data_length + 1);

    if (!data) {
        data = '\0';
    } else {
        data[data_length] = '\0';
    }
}


return data;
}

char* ltrim(char* str) {
    if (!str) {
        return '\0';
    }

    if (!*str) {
        return str;
    }

    while (*str != '\0' && isspace(*str)) {

```

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```

        str++;
    }

    return str;
}

char* rtrim(char* str) {
    if (!str) {
        return '\0';
    }

    if (!*str) {
        return str;
    }

    char* end = str + strlen(str) - 1;

    while (end >= str && isspace(*end)) {
        end--;
    }

    *(end + 1) = '\0';

    return str;
}

char** split_string(char* str) {
    char** splits = NULL;
    char* token = strtok(str, " ");

    int spaces = 0;

    while (token) {
        splits = realloc(splits, sizeof(char*) * ++spaces);

        if (!splits) {
            return splits;
        }

        splits[spaces - 1] = token;
    }

```