Marwadi University	Marwadi University Equative of Tachnology	
	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++) {</pre>
        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++)</pre>
    //
    //
           if(temp<h[word[i]-97])</pre>
    //
               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(fptr, "%d\n", result);
    fclose(fptr);
    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') {</pre>
            break;
        }
        alloc_length <<= 1;</pre>
```



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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;
```



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```
token = strtok(NULL, " ");
}

return splits;
}

int parse_int(char* str) {
    char* endptr;
    int value = strtol(str, &endptr, 10);

if (endptr == str || *endptr != '\0') {
        exit(EXIT_FAILURE);
    }

return value;
}
```

### **Output (Screen Shot):**

```
      ✓ Test case 0
      Compiler Message

      ✓ Test case 1 △
      Success

      ✓ Test case 2 △
      Input (stdin)
      Download

      1 1 3 1 3 1 4 1 3 2 5 5 5 5 5 5 5 5 5 5 5
      Output
      Download

      ✓ Test case 4 △
      Expected Output
      Download

      ✓ Test case 5 △
      1 9

      ✓ Test case 6
      1 0
```

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### **Understanding about problem:**

so here a=1, b=3,c=1

abc

so highest is 3 and the string length is also 3 so we will multiply it 3\*3 = 9. Answer = 9.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

#### **ALL THE BEST**

Team CP Club