Tugas Pointer Algoritma Struktur Data

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Kelas: IF-03-01

Kode:

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

#define MAX_LENGTH 2024
#define MIN_LENGTH 1945

void lessThanRequired (int *lengthOfText){
    printf("The length of your text is less than specified, please update your text\n");
    printf("Length Before : %d\n", *lengthOfText);
    *lengthOfText = MIN_LENGTH;
    printf("The Length is updated to %d\n", *lengthOfText);
    // TODO
}

void equalThanRequired (int *lengthOfText){
    printf("Thank you, Your text length is correct\n");
    // TODO
}

void moreThanRequired (int *lengthOfText){
    printf("Your text is too long, please reduce the text\n");
    printf("Length Before : %d\n", *lengthOfText);
    *lengthOfText = MAX_LENGTH;
    printf("The Length is updated to %d\n", *lengthOfText);
    // TODO
}

int checkLenghtRequirement(char* text){
    int length = strlen(text);
    if (length < MIN_LENGTH)
        return 0;
    else if (length == MAX_LENGTH)
        return 1;
    else
        return 2;
}
```

Output:


```
PS C:\Users\Agung\Documents\GitHub\Hello> cd "c:\Users\Agung\Documents\GitHub\Hello\" ; if ($?) { gcc Tugas.c -o Tugas } ; if ($?) { .\Tugas }
The length of your text is less than specified, please update your text
Length Before : 312
The Length is updated to 1945

The Lenght is updated to 1945
PS C:\Users\Agung\Documents\GitHub\Hello>
```

Penjelasan? :


```
 7
 8    void lessThanRequired (int *lengthOfText){
 9        printf("The length of your text is less than specified, please update your text\n");
10        printf("Length Before : %d\n", *lengthOfText);
11        *lengthOfText = MIN_LENGTH;
12        printf("The Length is updated to %d\n", *lengthOfText);
13        // TODO
14    }
15
```

Fungsi ini berfungsi untuk mencetak pesan "The length of your text is less than specified, please update your text" yang memberi tahu pengguna bahwa Panjang terks yang diberikan kurang dari yang ditetapkan, lalu mencetak Panjang teks sebelum diperbarui,kemudian Panjang teks diperbarui menjadi MIN_LENGTH, dan fungsi mencetak pesan "the Length is updated to …" yang mengikuti nilai 'MIN LENGTH'.


```
15
16    void equalThanRequired (int *lengthOfText){
17        printf("Thank you, Your text length is correct\n");
18        // TODO
19    }
20
```

Fungsi ini berfungsi untuk mencetak pesan "Thank you, Your text length is correct" bila Panjang text mengikuti nilai yang ditetapkan.


```
20
21    void moreThanRequired (int *lengthOfText){
22        printf("Your text is too long, please reduce the text\n");
23        printf("Length Before : %d\n", *lengthOfText);
24        *lengthOfText = MAX_LENGTH;
25        printf("The Length is updated to %d\n", *lengthOfText);
26        // TODO
27    }
28
```

Fungsi ini mencetak pesan "Your length is too long, please reduce the text", kemudian mencetak Panjang teks sebelum diperbarui, setelah itu Panjang teks diperbarui menjadi 'MAX_LENGTH', dan fungsi ini mencetak pesan "The length is updated to".