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

#define MAX_LENGTH 2024
#define MIN_LENGTH 1945

void lessThanRequired (int *lengthOfText){ //fungsi
yg digunakan ketika teks kurang dari yg dibutuhkan
    printf("The length of your text is less than
specified, please update your text\n");
    printf("Length Before : %d\n", *lengthOfText);
//print length before
    *lengthOfText = MIN_LENGTH + (MAX_LENGTH - 1 -
MIN_LENGTH); // Mengubah nilai menjadi 2023;
}

void equalThanRequired (){ //fungsi jika teks sama
dengan yg dibutuhkan
    printf("Thank you your lenght is correct\n");
}

void moreThanRequired (int *lengthOfText){ //fungsi
jika teks lebih dari yg dibutuhkan
    printf("Your text is to long, please reduce the
text\n");
    printf("Length Before : %d\n", *lengthOfText);
    *lengthOfText = MIN_LENGTH + (*lengthOfText -
MIN_LENGTH); //mengurangi panjang hingga mencapai
panjang maksimum
}
```

```

int checkLenghtRequirement(char* text){ // cek
panjang teks
    int length = strlen(text);
    if (length < MIN_LENGTH) //jika kurang dari yg
dibutuhkan
        return 0;
    else if (length == MIN_LENGTH) //jika sama dengan
panjang yg dibutuhkan
        return 1;
    else // jika lebih dari yg dibutuhkan
        return 2;
}

int main() {
    int lengthOfText, selectOption;
    FILE *fptr = NULL;
    char text[MAX_LENGTH];

    fptr = fopen("file.txt", "r"); //membuka file.txt

    if(fptr == NULL){ // jika file tidak ada maka
print error
        printf("Error");
        exit(1);
    }

    fgets(text, MAX_LENGTH, fptr);

    fclose(fptr); // tutup file.txt

    selectOption = checkLenghtRequirement(text);
//memilih fungsi untuk dipanggil

```

```
void (*functions[3])(int *) = {lessThanRequired,  
equalThanRequired, moreThanRequired}; //untuk  
memanggil fungsi  
lengthOfText = strlen(text);  
functions[selectOption](&lengthOfText);  
  
printf("\nThe Lenght is updated to %d",  
lengthOfText);  
  
return 0;  
}
```

Output :

```
The length of your text is less than specified, please update your text  
Length Before : 312
```

```
The Lenght is updated to 2023
```

```
PS C:\Users\MSI GAMING\Documents\TUGAS IMAM PRASETYO\ASD\Tugas_pointer> █
```