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(1043) PURPEECH - นิสิต...

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Dashboard > ICPE100 (1/2024): Lab > Lab 6.1: Array Input and Reversal in C

Lab 6.1: Array Input and Reversal in C EASY Memory Limit: 2000000 KB Time Limit: 1000 ms

Due date: Sat, 28 Sep 2024 12:00 AM  
Created date: Tue, 17 Sep 2024 11:51 PM

Problem Submission (6)

## Homework x: Array Input and Reversal in C

**Problem**

In this assignment, you will write a C program that takes an array of integers as input from the user, prints the array, and then prints the array in reverse order.

**Requirements**

- Array Input:**
  - The user will input 'n' integers, where 'n' is the size of the array.
  - Store the input values in an array.

```
1 // Phacharawat Eakawatphokhin
2 // 67878583425
3
4 #include <stdio.h>
5
6 int main(void){
7     int n;
8     scanf("%d", &n);
9     if(n < 0){
10         printf("Invalid Input");
11         return 0;
12     }
13
14     int arr[n];
15
16     for(int i = 0; i < n; i++){
17         scanf("%d", &arr[i]);
18     }
19
20     printf("Array: ");
21     for(int i = 0; i < n; i++){
22         printf("%d ", arr[i]);
23     }
```

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Dashboard > ICPE100 (1/2024): Lab > Lab 6.2: Array Max & Min

Lab 6.2: Array Max & Min EASY Memory Limit: 100000 KB Time Limit: 1000 ms

Due date: Sat, 28 Sep 2024 12:00 AM  
Created date: Thu, 19 Sep 2024 2:18 PM

Problem Submission (2)

## Lab 6.2: Array Max & Min

You are tasked with creating a program that calculates the maximum and minimum values from a list of integers entered by the user. The program should handle an array of integers, find the largest and smallest values, and then display these values.

**Requirements**

- Input:** The first line of input is an integer 'n', which indicates the number of integers to be processed. This is followed by 'n' integers, each on a new line.
- Output:** The program should output the maximum and minimum values from the provided integers.

```
1 // Phacharawat Eakawatphokhin
2 // 67878583425
3
4 #include <stdio.h>
5
6 int main(void){
7     int n;
8     scanf("%d", &n);
9     if(n < 1){
10         printf("Invalid input!");
11         return 0;
12     }
13
14     int arr[n];
15     for(int i = 0; i < n; i++){
16         scanf("%d", &arr[i]);
17     }
18
19     int min = arr[0];
20     int max = arr[0];
21
22     for(int i = 1; i < n; i++){
23         if(arr[i] < min) min = arr[i];
24         if(arr[i] > max) max = arr[i];
25     }
```

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Dashboard > ICPE100 (1/2024): Lab > Lab 6.3 : Letters counting Vowels and Consonants

Lab 6.3 : Letters counting Vowels and Consonants

EASY

Memory Limit: 100000 KB

Time Limit: 1000 ms

Due date: Sat, 28 Sep 2024 12:00 AM

Created date: Wed, 25 Sep 2024 10:16 PM

Letters counting Vowels and Consonants

Problem

Submission (1)

## Lab 6.3 : Letters counting Vowels and Consonants

### Problem

Create a program to count the number of Vowels (A,E,I,O,U) and Consonants in the given string. The string can mix between uppercase and lowercase.

**Hint:**

Try to approach this as a array of character, you can use strlen("your string") for outputting the length of the string

```
#includestring.h> // for include the string library
```

```
1 // Phacharawat Eakgawatphokhin
2 // 67878503425
3
4 #include <stdio.h>
5 #include <string.h>
6 #include <ctype.h>
7
8 int isVowel(char a){
9     if(a == 'a' || a == 'e' || a == 'i' || a == 'o' || a == 'u') return 1;
10    return 0;
11 }
12
13 int main(void){
14     char text[100];
15     scanf("%s", &text);
16     int v = 0;
17     int c = 0;
18
19     for(int i = 0; i < strlen(text); i++){
20         text[i] = tolower(text[i]);
21         if(isVowel(text[i]))v++;
22         else c++;
23     }
24 }
```

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