

2023 Spring Object-Oriented Programming

HW11

Submission – **Deadline: 2024/5/14 23:59**

Write a function called `deleteRepeats` that has a partially filled array as a formal parameter and deletes all repeated letters from the array. Make the function `deleteRepeats` a template function with a type parameter for the base type of the array.

Since a partially filled array requires two arguments, the function will have two formal parameters: an array parameter and a formal parameter of type `int` that gives the number of array positions used. When a letter is deleted, the remaining letters are moved forward to fill-in the gap. This will create empty positions at the end of the array so that less of the array is used. Since the formal parameter is a partially filled array, a second formal parameter of type `int` will tell how many array positions are filled.

Both formal parameter will be a call-by-reference parameter and the second one will be changed to show how much of the array is used after the repeated letters are deleted.

你只需要完成 `deleteRepeats`，不需修改 `main function` 的内容。

Sample Cases

```
21:38 c1c0912@vda04 [~] >$ g++ hw11.cpp -o hw11
21:39 c1c0912@vda04 [~] >$ ./hw11 sample.in
h a p y n e w r 8
0 1 2 3 5 4 6
21:39 c1c0912@vda04 [~] >$
```

Command

compile

```
g++ hw11.cpp -I . -o Hw11
```

execute

```
./Hw11 sample.in
```

OJ

```
/home/share/demo_OOP112_2 Hw 11
```

繳交方式:

- 請將程式碼(.cpp 檔)上傳至 newE3 作業繳交區
- 程式碼命名: studentID_HW11.cpp (e.g. 112555000_HW11.cpp)

***命名方式錯誤將斟酌扣分

如果有問題可以寄信給負責助教: 周承霖 clc0912.ee12@nycu.edu.tw