#### Students:

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# 21.4 Question 4 (5 marks)

In this exercise you will create a class called LogSanitiser that processes user log entries by replacing sensitive information. Details below

You are provided with the following files:

- main.cpp starter code to use as you develop the class (non used to evaluate your code)
- task.h read only header file
- task.cpp you will write your C++ code here

## class String Transformer

### Private data member:

```
char sanitizedLog[100];
```

a built-in array to store the user log (up to 100 characters)

**Constructor** to initialise the sentence:

```
LogSanitizer(const char* inputLog);
```

which stores the provided inputLog in the sanitizedLog array

Public member functions:

```
const char* sanitizeLog();
```

This function does the following:

- replace all numeric characters 0-9 with '!'
- replace vowels (a, e, i, o, u, both uppercase and lowercase) with '\*'
- returns the sanitizedLog

```
const char* getSanitizedLog() const;
```

this is a getter to return the sanitizedLog

## **Example** For the following:

```
LogSanitizer sanitizer("User ID: ABC123, Code: AEIOU");
sanitizer.sanitizeLog();
std::cout << sanitizer.getSanitizedLog() << std::endl;</pre>
```

the output should be:

```
"*s*r *D: *BC###, C*d*: *****"
```

NOTE: all separating spaces are unchanged from the input string

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**Develop mode** 

**Submit mode** 

Run your program as often as you'd like, before submitting for grading. Below, type any needed input values in the first box, then click **Run program** and observe the program's output in the second box.

## Enter program input (optional)

If your code requires input values, provide them here.

Run program

Input (from above) =

main.cpp (Your program)

Program output displayed here

Coding trail of your work What is this?

History of your effort will appear here once you begin working on this zyLab.

Trouble with lab?