

Task 2

[9]

An algorithm is required to monitor the water temperature of a swimming pool. The water temperature is taken every hour, over a period of 12 hours, with the current temperature and mean temperature of the water output to a screen every hour. The algorithm is required to display a warning if the water temperature in the swimming pool is too low or too high.

Using a basic text editor, write an algorithm, which:

- inputs current water temperature
- outputs the current water temperature
- outputs a warning if the water temperature is below 26 degrees Celsius
- outputs a warning if the water temperature is above 29 degrees Celsius
- outputs the new mean water temperature

A partial example of the **input** and output of the algorithm is shown below.

Input current water temperature in degrees Celsius: **27**

Current water temperature: 27

New mean temperature: 27

Input current water temperature in degrees Celsius: **25**

Current water temperature: 25

Warning: Water temperature too low

New mean temperature: 26

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Input current water temperature in degrees Celsius: ...

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Save your completed algorithm as FinalTemp.txt