



## **Perl Developer Test**

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# Instructions

This is an open-book test. You may consult any sources, references or books to aid you in answering the questions given. Sources used must be cited as comments with the submitted answer - non-compliance with any answers matching public searches of code posted on the Internet will be regarded as plagiarism, and be disqualified from candidacy.

There is 1 question in this test. You have 24 hours to submit your answers for the test upon receipt of the testpaper. You can submit your answers earlier than the stipulated time given once you are satisfied with your answers. Please submit the completed answers to [jobs@waratek.com](mailto:jobs@waratek.com) when done.

You may not be assisted by any other individual in any shape or form. The answers given in this paper may be re-examined; you will have to explain how you arrived at your answers should you be shortlisted for an interview.

Test answers are checked mechanically - it is **important** that you follow any naming, input or output conventions strictly to the letter. Candidates will be penalised for not following instructions properly.

Your completed answers are confidential. They are only reviewed by the examining interviewers. Should you be considered unsuccessful as a candidate in Waratek's recruitment process, the completed papers will be destroyed after the interviewers have concluded the assessment in finality.

Good luck!

## Question 1

Write a program that simulates a 7-segment display of a calculator. The display size is adjustable, the example that indicate how it is adjustable will be explained in the example below.

Name your program ``lcd.pl``. ``lcd.pl`` takes in 1 argument, which is the input test data.

### Example 1

```
> lcd.pl input.txt
```

``input.txt`` looks like this:

```
1 8192
```

where ``1`` indicates the scale of the LCD display, and ``8192`` is the number to be displayed. The following output will be sent to the console (standard output)

```
  -      -      -  
| |      | | | |  
  -      -      -  
| |      | | | |  
  -      -      -
```

## Example 2

`input.txt` looks like this:

```
2 8192
```

output is:

```
--      --      --  
| | | | | | | |  
| | | | | | | |  
--      --      --  
| | | | | | | |  
| | | | | | | |  
--      --      --
```

You can see that the width is correspondingly adjusted because of this.

## Format/Limits Of Input File

The syntax of the the input file is as follows:

N M
-----

where

- 'N' is an integral value indicating the size of the LCD to scale to. You can assume that  $1 \leq N \leq 10$ .
- 'M' is an integral value representing the value that the LCD will display. You can assume that the length of M is between the value of 1 to 25.

## Submission Criteria

This test paper is accompanied with `sample.zip` which contains some sample outputs in which your program is supposed to match.

The exercise of how to correctly match output is left to the candidate, and linefeed/carriage return differences between different platforms will be disregarded. Barring this sole exception, **you must ensure that the output matches exactly** (eg. matching trailing whitespaces).

If the outputs from your program does not match ALL the files as provided in the `sample.zip`, contingent to the exception listed above, the candidate may be disqualified from consideration immediately.

A submission without passing the submission criteria will not be accepted.