**Coding challenge**

A rust program is needed which checks to see if a string is a palindrome (reads the same forwards and backwards irrespective of case, whitespace, or punctuation etc.) or not.

**Design notes:**

Optionally (for those with prior experience): create and use a function called “is\_palindrome”, signature below:

&str or bool

**is\_palindrome()**

String

**Differentiated challenge:**

* **Easy** racecar
* **Medium** A nut for a jar of tuna
* **Hard** A man, a plan, a canal, Panama!

**Extension tasks:**

* Obtain original string (to check) via stdin user input, i.e. keyboard
* Obtain original string (to check) as a command line argument