

### Homework #3

# O1286120 Elementary Systems Programming Software Engineering Program Faculty of Engineering, KMITL

Ву

66010988 Cusson Laohaptanawong

## Source code(Git link):

https://github.com/cussonspoon/HW3-for-rust.git

## Output:

#### 1#

```
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin grade 0
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\grade.exe 0`
Failed with F
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin grade 50
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
    Running `target\debug\grade.exe 50`
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin grade 70
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
    Running `target\debug\grade.exe 70`
C
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin grade 99
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\grade.exe 99`
Excellent with A+
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin grade 150
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\grade.exe 150`
Invalid score
```

```
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin cf 0 300 20
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\cf.exe 0 300 20`
Fahr Celcius
0°F -17.8°C
20°F -6.7°C
40°F 4.4°C
60°F 15.6°C
80°F 26.7°C
100°F 37.8°C
120°F 48.9°C
140°F 60.0°C
160°F 71.1°C
180°F 82.2°C
200°F 93.3°C
220°F 104.4°C
240°F 115.6°C
260°F 126.7°C
280°F 137.8°C
300°F 148.9°C
```

```
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin cf 300 0 20
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\cf.exe 300 0 20`
Fahr Celcius
300°F 148.9°C
280°F 137.8°C
260°F 126.7°C
240°F 115.6°C
220°F 104.4°C
200°F 93.3°C
180°F 82.2°C
160°F 71.1°C
140°F 60.0°C
120°F 48.9°C
100°F 37.8°C
80°F 26.7°C
60°F 15.6°C
40°F 4.4°C
20°F -6.7°C
0°F -17.8°C
```

#### 3.1#

```
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star1 0
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\star1.exe 0`
PS D:\Software en work\Rust\Hw\hw3rust>
  PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star1 1
      Finished dev [unoptimized + debuginfo] target(s) in 0.02s
       Running `target\debug\star1.exe 1`
 PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star1 2
     Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star1.exe 2`
 **
 PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star1 3
     Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star1.exe 3`
 ***
 **
```

```
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star1 4
     Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star1.exe 4`
  **
  ***
  ***
 PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star1 5
     Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star1.exe 5`
 *
 **
 ***
 ****
 ***
 ***
 **
3.2#
PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star2 0
    Finished dev [unoptimized + debuginfo] target(s) in 0.02s
     Running `target\debug\star2.exe 0`
PS D:\Software en work\Rust\Hw\hw3rust>
 PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star2 1
     Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star2.exe 1`
 PS D:\Software en work\Rust\Hw\hw3rust>
  PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star2 2
      Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star2.exe 2`
  **
  PS D:\Software en work\Rust\Hw\hw3rust>
 PS D:\Software en work\Rust\Hw\hw3rust> cargo run --bin star2 3
     Finished dev [unoptimized + debuginfo] target(s) in 0.02s
      Running `target\debug\star2.exe 3`
  **
  **
```

### All test results:

```
running 8 tests

test test_no_input_cf ... ok

test test_grade ... ok

test test_no_input_grade ... ok

test test_cf ... ok

test test_no_star ... ok

test test_no_star ... ok

test test_with_star ... ok

test test_with_star ... ok

test test_with_star ... ok

The star of the star
```