

The Rust programming language Summer 2024 / 2025

Exercises

Number 1, Discussion: 2025 April 16 These first exercises are extracted from rustling. See the previous “exercise” sheet on how to install rustling for a more interactive experience.

1. Fix this code so that it compiles and prints correctly:

```
fn main() {  
    println!("Hello world!");  
}
```

2. Fix this code so that it compiles and prints correctly:

```
fn main() {  
    x = 5; // TODO: Add the missing keyword.  
    println!("x has the value {x}");  
}
```

3. Fix this code so that it compiles and prints correctly:

```
fn main() {  
    let x; // TODO: Change this line to fix the compiler error.  
    if x == 10 {  
        println!("x is ten!");  
    } else {  
        println!("x is not ten!");  
    }  
}
```

4. Fix this code so that it compiles and prints correctly:

```
fn main() {  
    let x = 3;  
    println!("Number {x}");  
  
    x = 5; // Don't change this line  
    println!("Number {x}");  
}
```

5. Fix this code so that it compiles and prints correctly:

```
fn main() {  
    let number = "T-H-R-E-E"; // Don't change this line  
    println!("Spell a number: {}", number);  
}
```

```
    number = 3; // Fix the compiler error by changing this line without renaming the variable.
    println!("Number plus two is: {}", number + 2);
}
```

6. Fix this code so that it compiles and prints correctly:

```
const NUMBER = 3; // Change this line to fix the compiler error.

fn main() {
    println!("Number: {NUMBER}");
}
```