```
Previous output:
Your Go files are not correctly formatted:
```

```
$ gofumpt -d .
diff -u printstr.go.orig printstr.go
--- printstr.go.orig
+++ printstr.go
@@ -3,7 +3,7 @@
import "github.com/01-edu/z01"

func PrintStr(s string) {
    for _, c := range s {
        z01.PrintRune(c)
    }
    + for _, c := range s {
        z01.PrintRune(c)
    }
}
```

Looks like your Go code formatting was fixed by <code>gofumpt</code> — it replaced spaces with tabs for indentation inside your for loop in <code>PrintStr</code>. This is standard Go formatting style.

The diff shows:

Tabs instead of spaces for indentation is the usual Go style, and gofumpt enforces that strictly.

If you want, I can help you automatically fix your formatting with a command or suggest how to set up your editor to format Go code on save. Would that help?



Got it — you're trying to import the piscine package in your main.go file, but it's not working. Let's troubleshoot a bit:

# Common reasons why importing piscine fails:

1. Package not installed / module not found If piscine is an external package (like github.com/01-edu/pis to run:			cine ), you need	
	bash	Сору	* Edit	
	go get github.com/01-edu/piscine			
	or make sure your go.mod file has the right dependency.			
2.	<b>Wrong import path</b> Check the exact import path in the package you want. It should match repository or your local module structure. For example:			
	go	Сору	* Edit	
	<pre>import "github.com/01-edu/piscine"</pre>			
	or if it's local, relative to your module root, something like:			
	go	Сору	Edit	
	<pre>import "your_module_name/piscine"</pre>			
3.	go.mod <b>missing or misconfigured</b> Make sure your project has a go.mod file initialized in the root:			
	bash	Сору	Edit	
	go mod init your_module_name			
	Then run go mod tidy to add missing dependencies.			
4.	Local package not in the right folder  If piscine is your own package, ensure it is inside your project	folder, e.	g.:	

bash

Copy Edit

#### **Quick checklist:**

- What is the exact import line you wrote in main.go?
- Do you have go.mod initialized?
- Is piscine an external or local package?
- Are you getting an error message? If yes, please share it.

If you want, share your main.go import statement and your project structure, I can help you pinpoint the problem!



main.go:3:8: package printS/piscine is not in std (/usr/local/go/src/printS/piscine)

Thanks for the error message! It says:

main.go:3:8: package printS/piscine is not in std (/usr/local/go/src/prints

This means Go is trying to find the package prints/piscine as if it were a standard library package, but it can't locate it.

# Why is this happening?

Your import statement in main.go probably looks like this:

```
go Copy Dedit
import "printS/piscine"
```

But printS/piscine is **not** a standard package and Go doesn't know where to find it.

#### How to fix it

- 1. Use a proper module path and structure
- You need to have a **module path** declared in your go.mod file at the root of your project. For example:

```
go mod init printS
```

• Your folder structure should look like this:

```
go Copy Edit

/your_project_root

go.mod

main.go

/piscine

piscine.go
```

• In your main.go, import the package using the module name plus the folder:

```
go Copy Copy Edit
```

import "printS/piscine"

#### 2. Make sure your go.mod is set up

• Run this in your project root:

```
bash

go mod init printS go mod tidy

Copy Dedit
```

• This tells Go your module's name is prints, and it looks for packages inside your project folders.

3. Your main.go example:

```
package main import ( "printS/piscine" ) func main() {
piscine.SomeFunction() // Replace with actual function }
```

#### **Summary**

- Run go mod init printS in your project root (where main.go lives).
- Make sure piscine folder is a subfolder of the project root.
- Import as "printS/piscine" in your code.

If you want, share your folder structure or your main.go file, I can give you a precise fix!

0 6

remove a file of gitea through vs code

You want to remove a file from a Gitea repository using VS Code? Here's a straightforward way to do it:

## Steps to remove a file from Gitea repo via VS Code

#### 1. Open your local repo folder in VS Code

Make sure you have cloned your Gitea repository locally and opened it in VS Code.

#### 2. Delete the file in VS Code

- In the Explorer panel, right-click the file you want to delete and select **Delete**.
- Or just select the file and press Delete key.

#### 3. Stage the deletion with Git

- Go to the **Source Control** panel in VS Code (the Git icon on the left sidebar).
- You will see the deleted file listed under **Changes**.
- Click the + icon next to the file or click **Stage All Changes**.

#### 4. Commit your change

- In the **Source Control** panel, type a commit message like "Remove filename" in the message box.
- Click the checkmark icon to commit.

#### 5. Push the commit to Gitea

- Click the "..." menu in the Source Control panel and select **Push**.
- This sends your commit (file removal) to the remote Gitea repository.

#### Alternative: Delete file via terminal in VS Code

You can also do it via terminal:

Let me know if you want help with cloning the repo first or anything else!

A 10

fatal: not removing 'PrintS/' recursively without -r

That error happens because git rm by default won't remove directories unless you tell it to remove recursively.

If you want to delete the entire Prints/ directory and all its contents, you need to add the -r flag:

# **Explanation:**

- git rm alone works on files.
- -r means recursive so it removes directories and everything inside them.

If you just want to delete a single file, use:

```
bash
git rm path/to/file.go
```

If you want me to guide you step-by-step for your exact case, just say!

Your Go files are not correctly formatted :

```
$ gofumpt -d .
diff -u printstr.go.orig printstr.go
--- printstr.go.orig
+++ printstr.go
@@ -3,7 +3,7 @@
import "github.com/01-edu/z01"

func PrintStr(s string) {
    for _, r := range s {
        z01.PrintRune(r)
    }
    + for _, r := range s {
        z01.PrintRune(r)
    }
}
```

This output means gofumpt detected formatting issues in your printstr.go and suggests a fix.

# What changed?

Your original code used spaces for indentation:

Go's standard formatting style (enforced by <code>gofmt</code> and stricter by <code>gofumpt</code>) requires **tabs** for indentation, not spaces.

# How to fix automatically?

Just run:

```
bash

gofumpt -w printstr.go

or

bash

Copy Edit

Copy

Gopy

Edit
```

The -w flag writes the formatting changes directly to your file.

If you want, I can also help you set up your editor to format Go code automatically on save. Would you like that?

0 0

```
func PrintStr(s string) {
    for _, r := range s {
      z01.PrintRune(r)
    }
    for _, r := range s {
      z01.PrintRune(r)
    }
}
```

This diff snippet shows the corrected formatting for your PrintStr function:

```
func PrintStr(s string) \{ - for _, r := range s \{ - z01.PrintRune(r) - \} + for _, r := range s \{ + z01.PrintRune(r) + \} \}
```

## What changed?

- Indentation switched from spaces to tabs (Go standard style).
- The closing brace } aligned properly with the func keyword.
- The body of the for loop is properly indented with tabs.

## Why is this important?

Go enforces tabs for indentation, and tools like <code>gofmt</code> or <code>gofumpt</code> auto-fix this for consistency and readability across Go codebases.

#### **Final formatted function:**

```
func PrintStr(s string) { for _, r := range s { z01.PrintRune(r) } }
```

If you want, I can help you generate a script or commands to format your entire project!



Write a function that counts the runes of a string and that returns that count.

Expected function: func StrLen(s string) int {

Here's a simple function in Go that counts the runes (Unicode code points) in a string and returns that count:

```
func StrLen(s string) int { count := 0 for range s { count++ } return
count }
```

#### **Explanation:**

- The for range loop iterates over each rune in the string s.
- Each iteration increments the count by 1.
- Finally, it returns the total number of runes.

If you want me to add tests or integrate this with your existing code, just let me know!

0 10

Write a function that takes two pointers to an int (\*int) and swaps their contents.

Expected function:
func Swap(a \*int, b \*int) {
}

Here's a straightforward Go function that swaps the contents of two \*int pointers:

go Copy Copy Edit

```
func Swap(a *int, b *int) { temp := *a *a = *b *b = temp }
```

#### **Explanation:**

- temp temporarily stores the value pointed to by a.
- Then \*a is assigned the value pointed to by b.
- Finally, \*b is assigned the original value stored in temp.

This swaps the integers that the pointers a and b refer to.

If you want, I can also provide an example usage!



Write a function that reverses a string.

This function will return the reversed string.

```
Expected function:
func StrRev(s string) string {
}
```

Here's a Go function that reverses a string correctly, handling Unicode runes properly:

```
func StrRev(s string) string { runes := []rune(s) for i, j := 0,
len(runes)-1; i < j; i, j = i+1, j-1 { runes[i], runes[j] = runes[j],
runes[i] } return string(runes) }</pre>
```

#### **Explanation:**

- Converts the string to a []rune slice to handle multi-byte Unicode characters properly.
- Swaps runes from the start and end moving toward the center.
- Returns the reversed string by converting the runes back to a string.

Want me to show you how to test it?



Write an iterative function that returns the factorial of the int passed as parameter.

Errors (non possible values or overflows) will return 0.

```
Expected function:
func IterativeFactorial(nb int) int {
}
Previous output:
IterativeFactorial(13) == 0 instead of 6227020800
```

Here's a correct implementation of the IterativeFactorial function in Go that handles errors like negative input and overflow:

exit status 1

```
func IterativeFactorial(nb int) int { if nb < 0 || nb > 12 { return 0 }
result := 1 for i := 2; i <= nb; i++ { result *= i } return result }</pre>
```

#### **Explanation:**

- nb < 0: Negative numbers don't have a factorial return 0.
- nb > 12: 13! = 6227020800 exceeds the maximum value of a 32bit int (which is typically 2,147,483,647), so return 0 to indicate overflow.
- Uses a loop to calculate factorial iteratively.

#### Note:

If you're using a 64-bit system and want to support higher values safely, you could change the return type to int64, but since your original prompt returns int, it's safer to cap at 12!.

Let me know if you want a recursive version or test cases!



IterativeFactorial(13) == 0 instead of 6227020800 exit status 1

You're seeing:

```
lua Copy Copy Edit
```

IterativeFactorial(13) == 0 instead of 6227020800 exit status 1

This is because **6227020800 (13!) exceeds the limit of a 32-bit** int, which typically maxes out at 2,147,483,647. So:

- If you're using int (default in Go), the result overflows and becomes incorrect.
- If your test expects 6227020800, you **must use** int64 (or even uint64) to store larger factorials.

#### √ Correct version using int64:

```
func IterativeFactorial(nb int) int64 { if nb < 0 { return 0 } result :=
int64(1) for i := 2; i <= nb; i++ { result *= int64(i) } return result }</pre>
```

### **Usage example:**

```
go Copy Copy Edit

fmt.Println(IterativeFactorial(13)) // Output: 6227020800
```

# If you're required to return int and not int64:

Then the test case IterativeFactorial(13) is invalid because the value doesn't fit in a 32-bit int, and returning 0 is correct.

Let me know:

- Are you allowed to change the return type to int64?
- Or are you working under a fixed constraint (e.g., a school exercise like 01-edu)?
- 0 0

IterativeFactorial(-2605572557631491098) == 0 instead of 0 exit status 1

Thanks — you're pointing out this result:

That looks like a **test passed** (since 0 == 0), but your program still exited with a non-zero status — which suggests a **runtime error**, not a logic error.

### Most likely cause:

You're passing a **very large negative number** ( -2605572557631491098 ) into a function that expects a regular int . In Go:

- The type int is either **32-bit or 64-bit**, depending on the system.
- That number overflows the valid range of an int , and Go panics or misbehaves when using it as an int .

#### √ Fix: Use int64 for the parameter

Update your function like this:

```
func IterativeFactorial(nb int64) int64 { if nb < 0 { return 0 } result
:= int64(1) for i := int64(2); i <= nb; i++ { result *= i } return
result }</pre>
```

Now it can safely accept large **negative** values and still return 0.

### Optional: Add a cap to prevent overflow

Factorials grow very fast, so you might want to cap input to prevent overflow even in int64. The largest factorial that fits in int64 is 20! = 2432902008176640000.

Add this to your check:

Let me know if you're constrained to using <code>int</code> only (e.g. by 01-edu's test runner), and I'll give a compatible workaround.





remove int64 from code

Got it — you're asking for a version of IterativeFactorial that **does not** use int64, so it works with plain int.

# ✓ Here's the correct int -only version with overflow check:

```
func IterativeFactorial(nb int) int { if nb < 0 || nb > 12 { return 0 }
result := 1 for i := 2; i <= nb; i++ { result *= i } return result }</pre>
```

#### Why nb > 12?

#### Because:

- 13! =  $6227020800 \rightarrow \text{exceeds}$  the maximum value for a 32-bit int (2,147,483,647)
- So we **limit** the function to nb <= 12 to avoid overflow

If you're working in an environment like 01-edu or using a 32-bit int by design, this is the safe and expected behavior.

Let me know if you need a version that *detects* overflow instead of hard-coding the cap!

0 0

Write an iterative function that returns the factorial of the int passed as parameter.

Errors (non possible values or overflows) will return 0.

Expected function func IterativeFactorial(nb int) int {

```
}
Usage
Here is a possible program to test your function :

package main

import (
     "fmt"
     "piscine"
)

func main() {
     arg := 4
     fmt.Println(piscine.IterativeFactorial(arg))
}
And its output :

$ go run .
24
$
```

Here is the full implementation of the IterativeFactorial function using int **only**, as expected by your usage and output example:

✓ IterativeFactorial implementation (in piscine package):

```
package piscine func IterativeFactorial(nb int) int { if nb < 0 || nb >
12 { return 0 } result := 1 for i := 2; i <= nb; i++ { result *= i }
return result }</pre>
```

✓ Example usage ( main.go ):

```
package main import ( "fmt" "piscine" ) func main() { arg := 4
fmt.Println(piscine.IterativeFactorial(arg)) // Output: 24 }
```

# Q Why nb > 12 returns 0:

- 13! =  $6,227,020,800 \rightarrow \text{this overflows a 32-bit int } (\max = 2,147,483,647)$
- To prevent overflow, the function safely returns 0 when nb > 12 or nb < 0, as specified.

Let me know if you need a recursive version or want to add tests!



Instructions

Write an iterative function that returns the factorial of the int passed as parameter.

Errors (non possible values or overflows) will return 0.

Expected function:
func IterativeFactorial(nb int) int {
}

Here's the complete and correct implementation of the required function using int, with error handling for invalid input and overflow:

# √ Final IterativeFactorial implementation:

```
func IterativeFactorial(nb int) int { if nb < 0 || nb > 12 { return 0 }
result := 1 for i := 2; i <= nb; i++ { result *= i } return result }</pre>
```

# 

- **Negative input (** nb < 0 ) → returns 0 (invalid input)
- Overflow protection ( nb > 12 ) → returns 0
  - 13! = 6227020800 exceeds the 32-bit int limit (≈ 2.1 billion)
- Uses a simple iterative loop to compute the factorial

## **✓** Example usage:

```
fmt.Println(IterativeFactorial(4)) // Output: 24
fmt.Println(IterativeFactorial(-1)) // Output: 0
fmt.Println(IterativeFactorial(13)) // Output: 0
```

Let me know if you need this wrapped in a full program or tested in a specific setup like 01-edu!

0 10

this code must have an output of 24 when it runs correctly and an output of 0 when it runs incorrectly

Perfect — the code you've described should:

- \( \nabla \) Return 24 when input is 4 (since 4! = 24)
- V Return 0 when the input is invalid (like negative or too large e.g. -1, 13)

## ✓ Correct IterativeFactorial function:

```
func IterativeFactorial(nb int) int { if nb < 0 || nb > 12 { return 0 }
result := 1 for i := 2; i <= nb; i++ { result *= i } return result }</pre>
```

## ✓ Example test program ( main.go ):

```
package main import ( "fmt" "piscine" ) func main() { arg := 4 fmt.Println(piscine.IterativeFactorial(arg)) // Output: 24 arg = 13 fmt.Println(piscine.IterativeFactorial(arg)) // Output: 0 arg = -2 fmt.Println(piscine.IterativeFactorial(arg)) // Output: 0 }
```

# ✓ Output:

Let me know if you need this in a specific format or with user input, or if you're working under a test system like 01-edu that requires exact structure.



the output must not have 2 '0' on new lines

Got it — you want your program to **only output** 24 **when input is valid** and **only a** single 0 **when it's invalid**, **not multiple lines**.

# √ Final version of your test program ( main.go ):

```
package main import ( "fmt" "piscine" ) func main() { arg := 4 // Change
this to test other values like 13 or -2 result :=
piscine.IterativeFactorial(arg) fmt.Println(result) }
```

√ Function in piscine/iterativefactorial.go:

```
package piscine func IterativeFactorial(nb int) int { if nb < 0 || nb >
12 { return 0 } result := 1 for i := 2; i <= nb; i++ { result *= i }
return result }</pre>
```

# **✓** Output examples:

✓ Only one value printed, no extra 0 s — meets your requirement exactly.
Let me know if you'd like this validated against multiple test cases automatically.

how do i reset a terminal

To reset a terminal, you have a few options depending on your system and terminal type. Here are the most common methods:

# √ 1. Standard way (works in most terminals)

Just type:

bash Copy Copy to Edit

Then press **Enter**. This clears the screen and resets terminal settings.

# **√** 2. Alternative: Clear screen only

If you just want to clear the screen without resetting settings:

bash Copy Copy Edit

But this won't fix broken formatting or escape sequences — use reset for that.

### √ 3. Force reset with Ctrl + key combination

- Ctrl + L: Clears the screen (like clear)
- **Ctrl** + **C**: Cancels a running or frozen command
- **Ctrl + D**: Exits the shell (if the shell is stuck or you want to log out)

# **4. If** reset doesn't work (e.g., command not found)

Try: Copy Edit bash tput reset Or: Copy Dedit bash stty sane Let me know what OS or terminal (e.g. macOS Terminal, VS Code terminal, Linux shell) you're using if you want specific instructions. IterativeFactorial(22) == -1250660718674968576 instead of 0

exit status 1

#### You're seeing this:

Copy Dedit lua IterativeFactorial(22) == -1250660718674968576 instead of 0 exit status 1

# √ What's happening?

• You're calculating 22! using int in Go.

- But 22! = 1.1240007e+21, which far exceeds the range of a 64-bit signed integer (int64 max: 9,223,372,036,854,775,807)
- Since you're using a regular int , **this causes an integer overflow**, resulting in a garbage value: -1250660718674968576
- Your function should **return** 0 when an overflow is possible that's what your test expects.

### ✓ Solution: Cap nb to 20 or below

The largest factorial that safely fits in a 64-bit signed int is 20! = 2432902008176640000.

If you're using plain int, it's safest to cap at 12, because Go's int might be 32-bit depending on the system.

But if your system supports 64-bit int, you can go up to 20 safely.

# **✓** Updated function (safe for up to 20):

```
func IterativeFactorial(nb int) int { if nb < 0 || nb > 20 { return 0 }
result := 1 for i := 2; i <= nb; i++ { result *= i } return result }</pre>
```

!If you're required to support only 32-bit int (like in 01-edu or similar), use this safer version:

```
func IterativeFactorial(nb int) int { if nb < 0 || nb > 12 { return 0 }
result := 1 for i := 2; i <= nb; i++ { result *= i } return result }</pre>
```

Let me know what platform or testing system you're targeting (e.g. 01-edu), and I'll tailor it precisely.



#### package piscine

```
func RecursiveFactorial(nb int) int {
    if nb < 0 || nb > 20 {
        return 0
    } else {
        result := 1
        for n := 2; n <= nb; n++ {
            result *= n
        }
        return result
    }
}</pre>
```

Thanks for sharing your code! You're implementing a **factorial function**, but despite the function name RecursiveFactorial, your current implementation is **iterative**, not recursive.

## **Q** Your current code:

```
package piscine func RecursiveFactorial(nb int) int { if nb < 0 || nb >
20 { return 0 } else { result := 1 for n := 2; n <= nb; n++ { result *=
n } return result } }</pre>
```

This works correctly for factorial **within the range 0–20**, but it's **not recursive**.

#### **✓** Correct recursive version:

```
package piscine func RecursiveFactorial(nb int) int { if nb < 0 || nb >
20 { return 0 } if nb == 0 || nb == 1 { return 1 } return nb *
RecursiveFactorial(nb-1) }
```

## □ Explanation:

- The function calls itself (RecursiveFactorial(nb 1)), which is the definition of recursion.
- Base cases:

```
• nb == 0 || nb == 1 \rightarrow return 1
```

- Error handling:
  - nb < 0 || nb > 20  $\rightarrow$  return 0 to avoid invalid input or overflow

Let me know if you want both recursive and iterative versions side by side!



remake this code however "for" is forbidden

Perfect — since the keyword for **is forbidden**, and you're writing a **recursive** factorial function, here's the corrected version that meets all your constraints:

 $\ensuremath{\mathscr{V}}$  Final RecursiveFactorial function (no for , uses recursion):

```
package piscine func RecursiveFactorial(nb int) int { if nb < 0 || nb >
20 { return 0 } if nb == 0 || nb == 1 { return 1 } return nb *
RecursiveFactorial(nb-1) }
```

#### 

- No for loop uses pure recursion.
- Returns 0 for:
  - Negative values
  - **Values > 20** (to prevent integer overflow in int on 64-bit systems)
- Base case: nb == 0 || nb == 1 → return 1
- Recursive case: nb \* RecursiveFactorial(nb 1)

}

Let me know if you're using this in a testing environment like 01-edu and need test cases or validation code!



Write a recursive function that returns the factorial of the int passed as parameter.

Errors (non possible values or overflows) will return 0.

for is forbidden for this exercise.

Expected function func RecursiveFactorial(nb int) int {

Here is the correct **recursive** implementation of the RecursiveFactorial function in Go, following all your instructions:

# ✓ Expected Function (No for , Handles Errors, Recursive):

```
func RecursiveFactorial(nb int) int { if nb < 0 || nb > 20 { return 0 }
if nb == 0 || nb == 1 { return 1 } return nb * RecursiveFactorial(nb-1)
}
```

## **Q** Explanation:

- V No for loop (requirement met)
- \( \sqrt{Uses} \) Uses **recursion** to calculate factorial
- ✓ Returns 0 for:
  - Negative numbers (invalid)
  - Numbers greater than 20 (to avoid int overflow)
- ✓ Base cases: 0! and 1! both return 1
- ✓ Recursive case: nb \* RecursiveFactorial(nb 1)

## ✓ Example usage (for testing):

```
package main import ( "fmt" "piscine" ) func main() {
fmt.Println(piscine.RecursiveFactorial(4)) // Output: 24
fmt.Println(piscine.RecursiveFactorial(13)) // Output: 6227020800 is too large for int -> returns 0 fmt.Println(piscine.RecursiveFactorial(-2)) // Output: 0 }
```

Let me know if you're targeting 32-bit systems (then you should cap at 12 instead of 20).

0 0

Write an iterative function that returns the value of nb to the power of power.

Negative powers will return 0. Overflows do not have to be dealt with.

```
Expected function
func IterativePower(nb int, power int) int {
}
```

Here is the correct implementation of the IterativePower function in Go using an **iterative approach**, as requested:

# ✓ Expected Function: IterativePower

```
func IterativePower(nb int, power int) int { if power < 0 { return 0 }
result := 1 for i := 0; i < power; i++ { result *= nb } return result }</pre>
```

#### **Q** Explanation:

- **Negative power** → returns 0 (as required)
- Base case: anything to the power of 0 is 1
- Uses a for loop to multiply nb by itself power times
- No need to handle overflow (as per instruction)

### ✓ Example usage:

```
go
fmt.Println(IterativePower(2, 3)) // Output: 8
fmt.Println(IterativePower(5, 0)) // Output: 1
fmt.Println(IterativePower(2, -2)) // Output: 0
```

Let me know if you want a version that avoids the for loop (recursive version) or includes test cases!

Write a recursive function that returns the value of nb to the power of power.

Negative powers will return 0. Overflows do not have to be dealt with.

for is forbidden for this exercise.

```
Expected function
func RecursivePower(nb int, power int) int {
}
```

Here's the recursive implementation of RecursivePower following your requirements:

- Negative powers return 0
- No for loops
- Recursive calculation of nb raised to power

```
func RecursivePower(nb int, power int) int { if power < 0 { return 0 }
if power == 0 { return 1 } return nb * RecursivePower(nb, power-1) }</pre>
```

# **Explanation:**

- If power < 0, return 0 (error case)
- If power == 0, return 1 (base case)
- Otherwise, multiply nb by the result of RecursivePower(nb, power-
  - 1) (recursive case)

#### **Example usage:**

```
fmt.Println(RecursivePower(2, 3)) // Output: 8
fmt.Println(RecursivePower(5, 0)) // Output: 1
fmt.Println(RecursivePower(2, -2)) // Output: 0
```

Let me know if you want me to help with test code or edge cases!



Write a recursive function that returns the value at the position index in the fibonacci sequence.

The first value is at index 0.

The sequence starts this way: 0, 1, 1, 2, 3 etc...

A negative index will return -1.

for is forbidden for this exercise.

Expected function package piscine

func Fibonacci(index int) int {

}

Here's the recursive Fibonacci function as requested, with no for loops and error handling for negative indices:

```
package piscine func Fibonacci(index int) int { if index < 0 { return -1
} if index == 0 { return 0 } if index == 1 { return 1 } return
Fibonacci(index-1) + Fibonacci(index-2) }</pre>
```

#### **Explanation:**

- Returns -1 if index is negative
- Base cases:
  - Fibonacci(0) = 0
  - Fibonacci(1) = 1
- Recursive case: sum of previous two Fibonacci numbers

### **Example usage:**

Let me know if you want it optimized (e.g., memoization) or wrapped in a test program!



Write a function that returns the square root of the int passed as parameter, if that square root is a whole number. Otherwise it returns 0.

```
Expected function func Sqrt(nb int) int {
```

Here's a straightforward function that returns the integer square root of <code>nb</code> if it's a perfect square, otherwise returns <code>0</code>:

```
func Sqrt(nb int) int { if nb < 0 { return 0 } for i := 0; i*i <= nb;
i++ { if i*i == nb { return i } } return 0 }</pre>
```

# **Explanation:**

- Returns o if nb is negative.
- Iterates from 0 upwards, checking if i\*i equals nb.
- If found, returns i.
- If no perfect square matches, returns 0.

If you want me to write a version without for or using recursion, just ask!