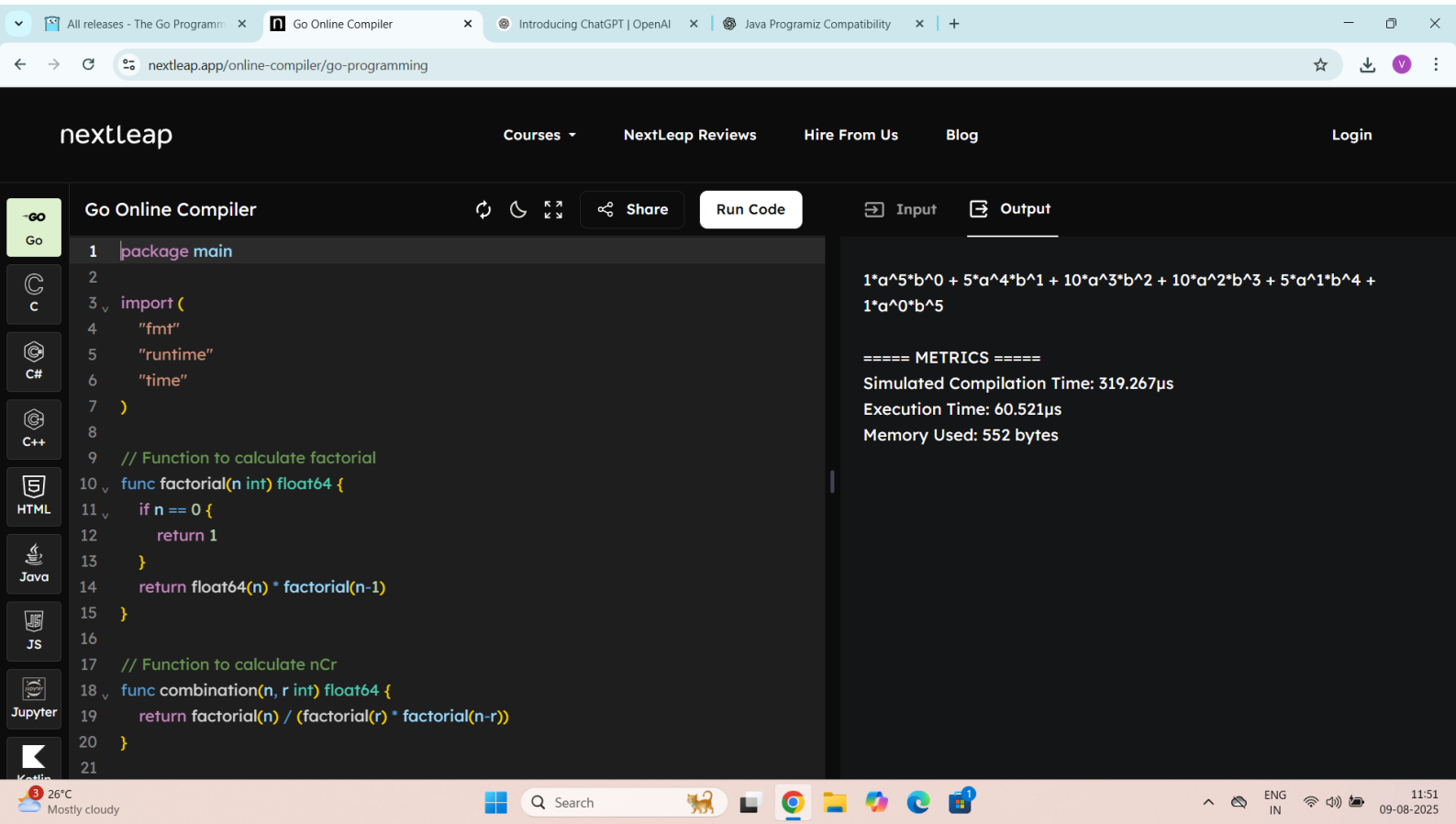
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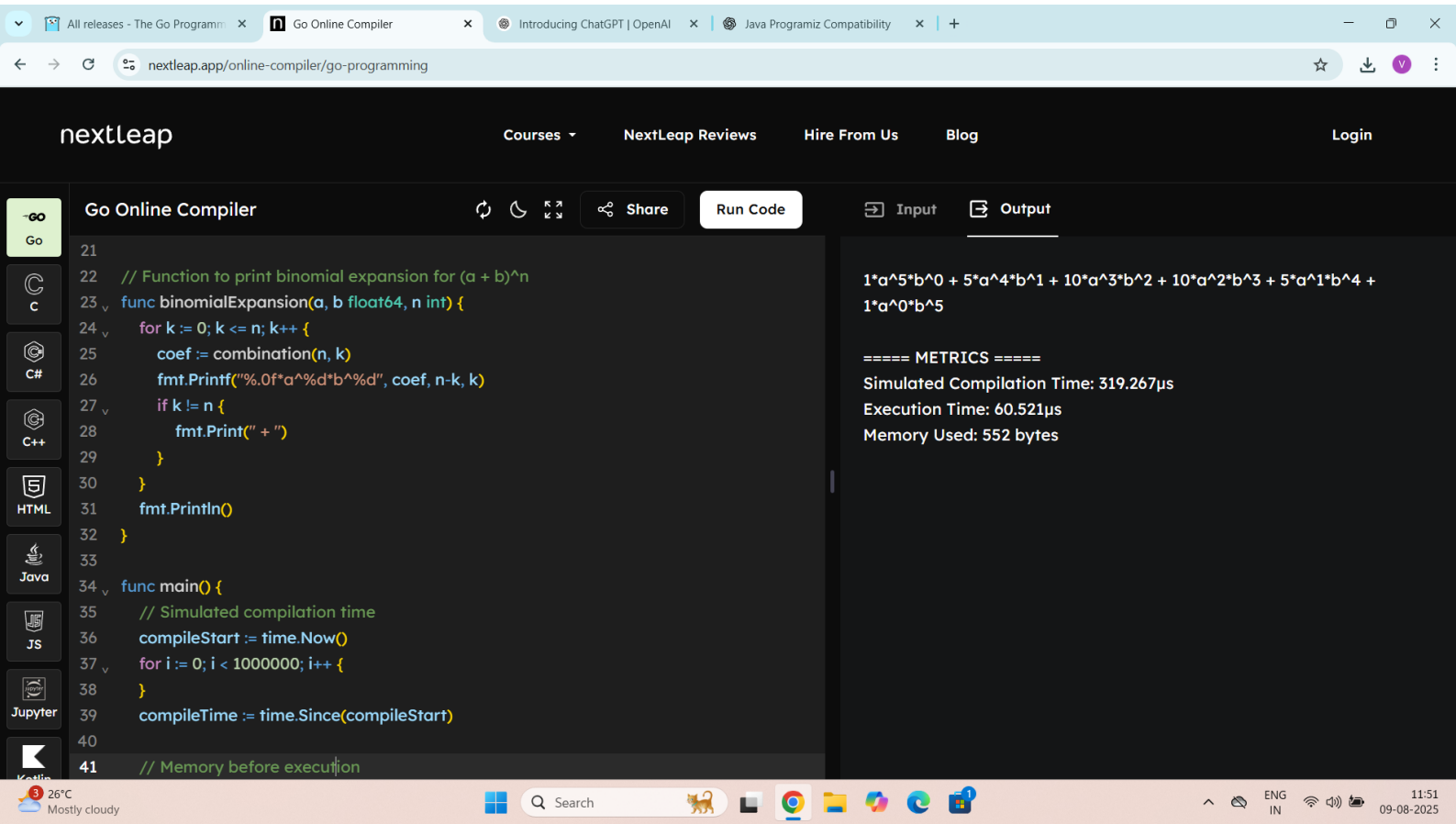
1 package main
2
3 import (
4 "fmt"
5 "runtime"
6 "time"
7)
8
9 // Function to calculate factorial
10 func factorial(n int) float64 {
11 if n == 0 {
12 return 1
13 }
14 return float64(n) * factorial(n-1)
15 }
16
17 // Function to calculate nCr
18 func combination(n, r int) float64 {
19 return factorial(n) / (factorial(r) * factorial(n-r))
20 }
21
1*a^5*b^0 + 5*a^4*b^1 + 10*a^3*b^2 + 10*a^2*b^3 + 5*a^1*b^4 + 1*a^0*b^5
===== METRICS =====
Simulated Compilation Time: 319.267µs
Execution Time: 60.521µs
Memory Used: 552 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:51
09-08-2025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21
22 // Function to print binomial expansion for (a + b)^n
23 func binomialExpansion(a, b float64, n int) {
24 for k := 0; k <= n; k++ {
25 coef := combination(n, k)
26 fmt.Printf("%.0f*a^%d*b^%d", coef, n-k, k)
27 if k != n {
28 fmt.Print(" + ")
29 }
30 }
31 fmt.Println()
32 }
33
34 func main() {
35 // Simulated compilation time
36 compileStart := time.Now()
37 for i := 0; i < 1000000; i++ {
38 }
39 compileTime := time.Since(compileStart)
40
41 // Memory before execution
1*a^5*b^0 + 5*a^4*b^1 + 10*a^3*b^2 + 10*a^2*b^3 + 5*a^1*b^4 + 1*a^0*b^5
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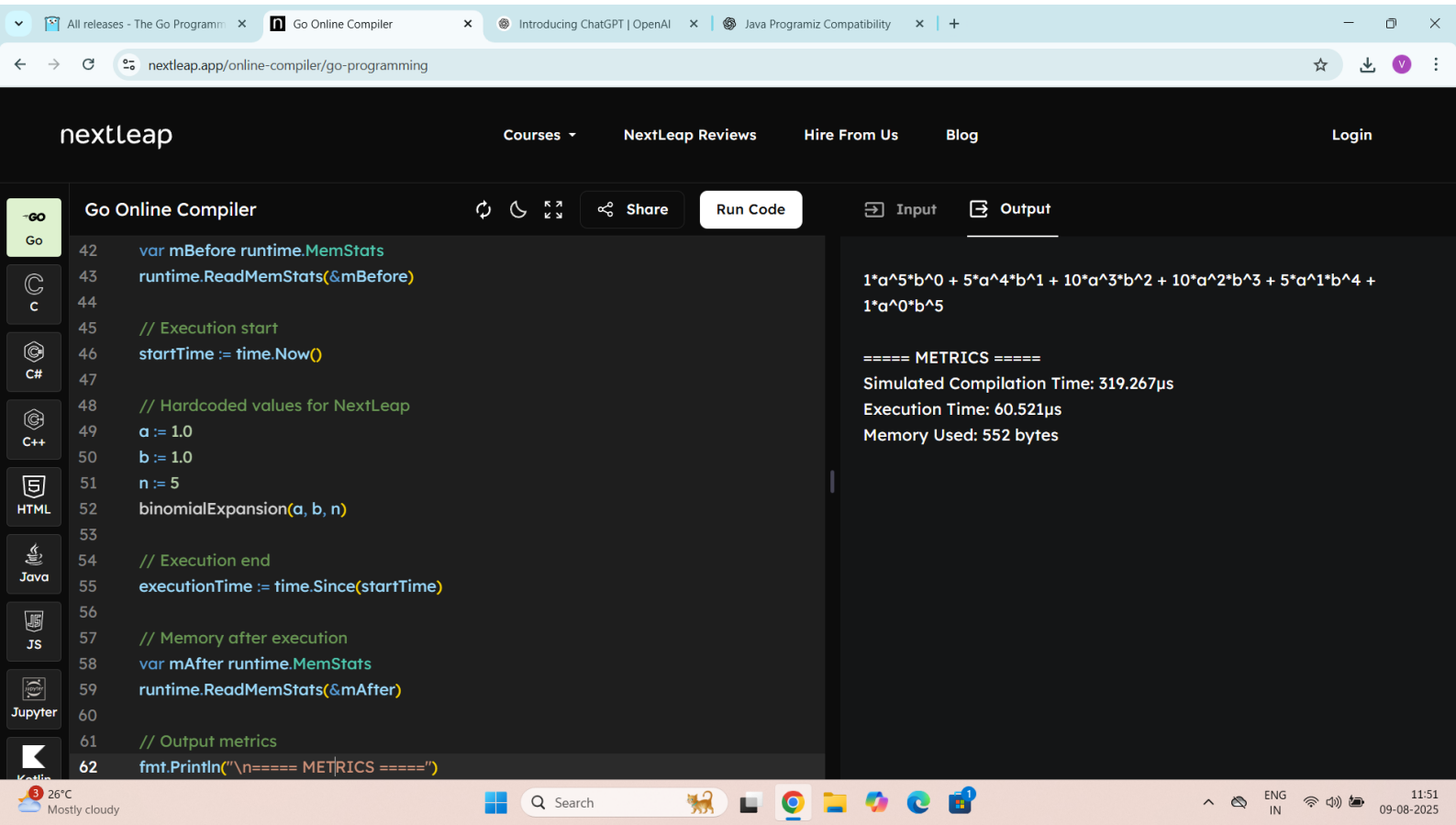
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42 var mBefore runtime.MemStats
43 runtime.ReadMemStats(&mBefore)
44
45 // Execution start
46 startTime := time.Now()
47
48 // Hardcoded values for NextLeap
49 a := 1.0
50 b := 1.0
51 n := 5
52 binomialExpansion(a, b, n)
53
54 // Execution end
55 executionTime := time.Since(startTime)
56
57 // Memory after execution
58 var mAfter runtime.MemStats
59 runtime.ReadMemStats(&mAfter)
60
61 // Output metrics
62 fmt.Println("\n===== METRICS =====")
1*a^5*b^0 + 5*a^4*b^1 + 10*a^3*b^2 + 10*a^2*b^3 + 5*a^1*b^4 + 1*a^0*b^5
===== METRICS =====
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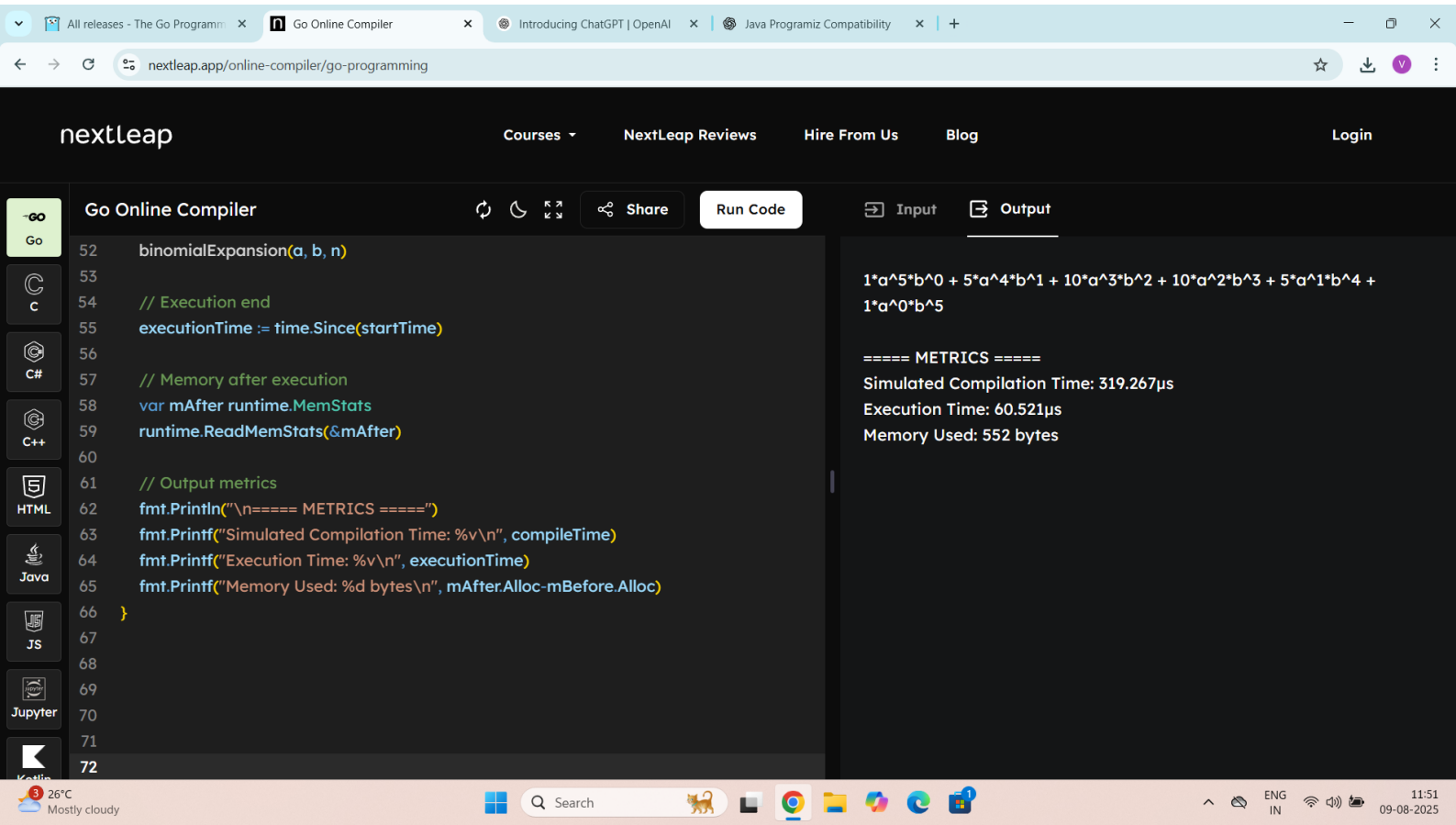
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Kotlin
52 binomialExpansion(a, b, n)
53
54 // Execution end
55 executionTime := time.Since(startTime)
56
57 // Memory after execution
58 var mAfter runtime.MemStats
59 runtime.ReadMemStats(&mAfter)
60
61 // Output metrics
62 fmt.Println("\n===== METRICS =====")
63 fmt.Printf("Simulated Compilation Time: %v\n", compileTime)
64 fmt.Printf("Execution Time: %v\n", executionTime)
65 fmt.Printf("Memory Used: %d bytes\n", mAfter.Alloc-mBefore.Alloc)
66 }
67
68
69
70
71
72
1*a^5*b^0 + 5*a^4*b^1 + 10*a^3*b^2 + 10*a^2*b^3 + 5*a^1*b^4 + 1*a^0*b^5
===== METRICS =====
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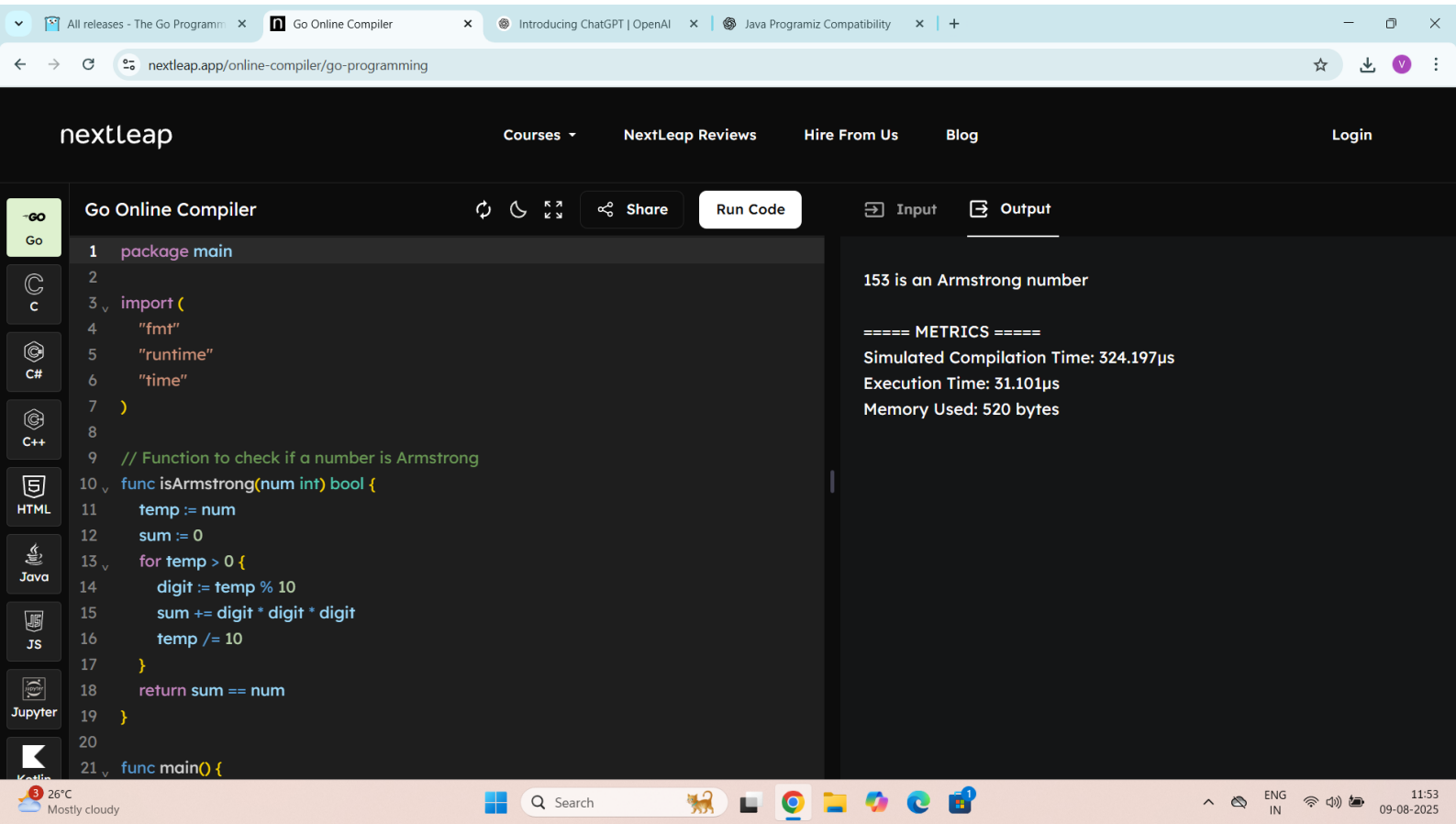
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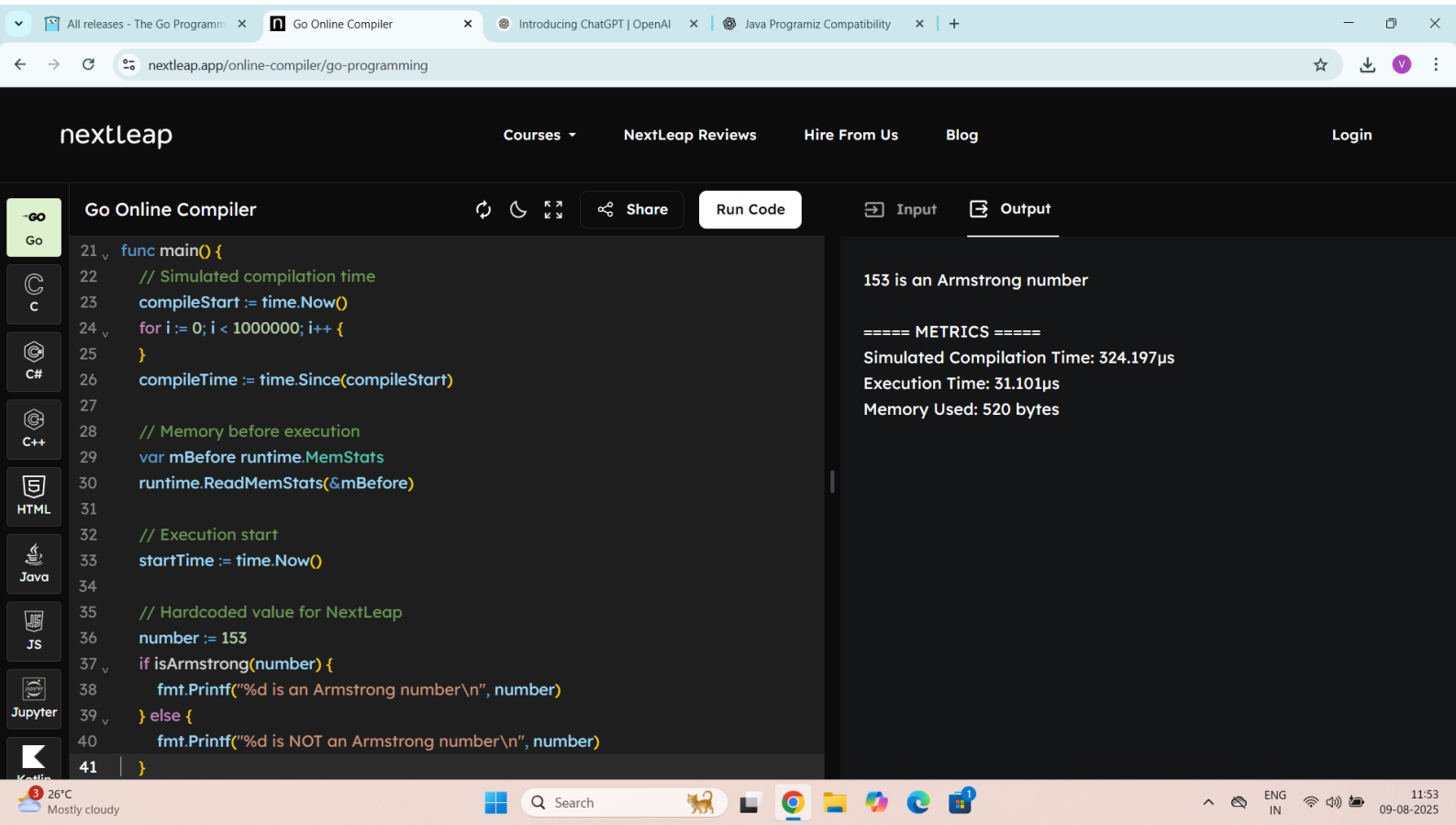
1 package main
2
3 import (
4 "fmt"
5 "runtime"
6 "time"
7)
8
9 // Function to check if a number is Armstrong
10 func isArmstrong(num int) bool {
11 temp := num
12 sum := 0
13 for temp > 0 {
14 digit := temp % 10
15 sum += digit * digit * digit
16 temp /= 10
17 }
18 return sum == num
19 }
20
21 func main() {
153 is an Armstrong number
===== METRICS =====
Simulated Compilation Time: 324.197µs
Execution Time: 31.101µs
Memory Used: 520 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:53
09-08-2025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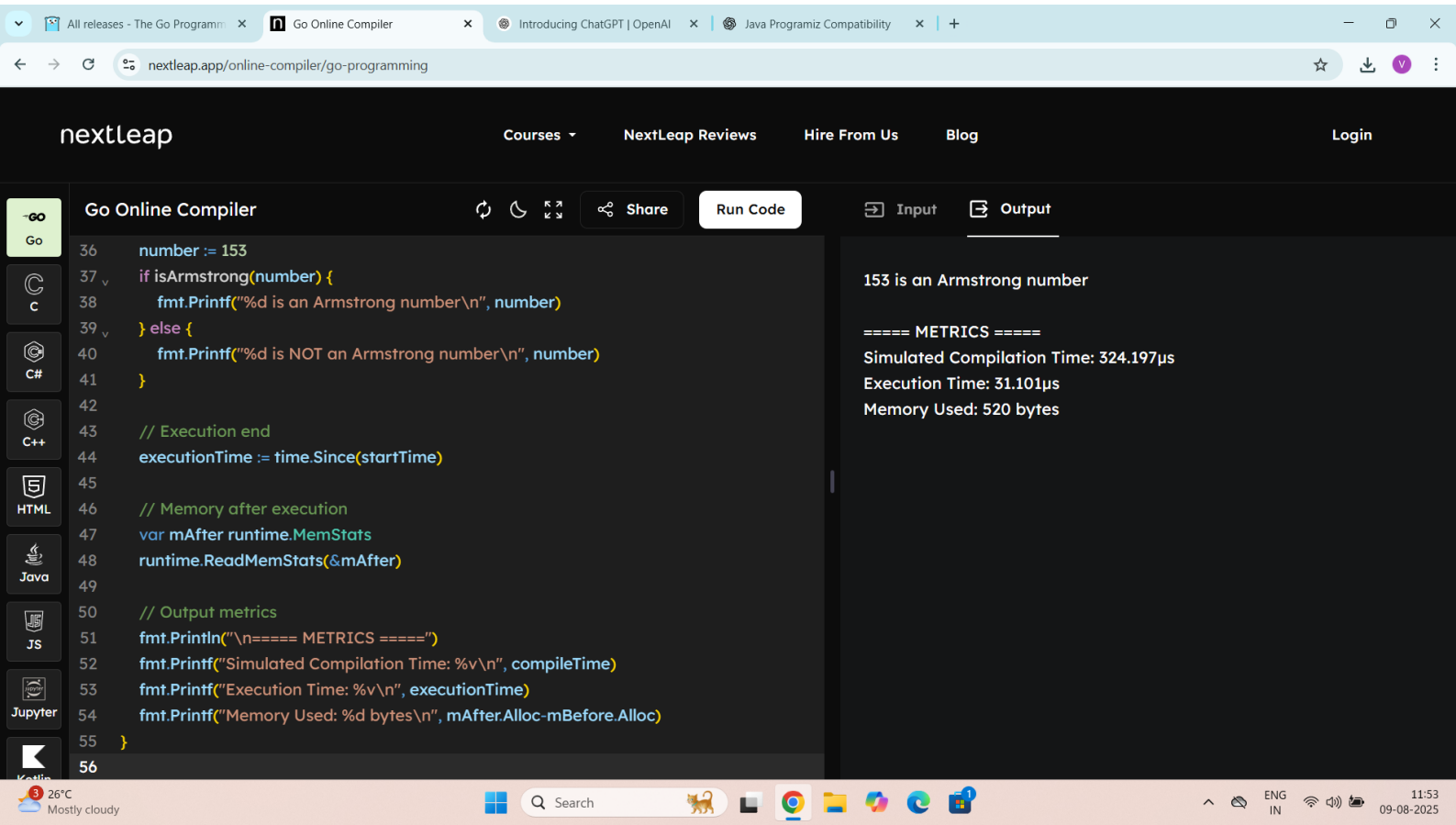
func main() {
// Simulated compilation time
compileStart := time.Now()
for i := 0; i < 1000000; i++ {
}
compileTime := time.Since(compileStart)
// Memory before execution
var mBefore runtime.MemStats
runtime.ReadMemStats(&mBefore)
// Execution start
startTime := time.Now()
// Hardcoded value for NextLeap
number := 153
if isArmstrong(number) {
fmt.Printf("%d is an Armstrong number\n", number)
} else {
fmt.Printf("%d is NOT an Armstrong number\n", number)
}
153 is an Armstrong number
===== METRICS =====
Simulated Compilation Time: 324.197µs
Execution Time: 31.101µs
Memory Used: 520 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:53
09-08-2025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36 number := 153
37 if isArmstrong(number) {
38 fmt.Printf("%d is an Armstrong number\n", number)
39 } else {
40 fmt.Printf("%d is NOT an Armstrong number\n", number)
41 }
42
43 // Execution end
44 executionTime := time.Since(startTime)
45
46 // Memory after execution
47 var mAfter runtime.MemStats
48 runtime.ReadMemStats(&mAfter)
49
50 // Output metrics
51 fmt.Println("\n===== METRICS =====")
52 fmt.Printf("Simulated Compilation Time: %v\n", compileTime)
53 fmt.Printf("Execution Time: %v\n", executionTime)
54 fmt.Printf("Memory Used: %d bytes\n", mAfter.Alloc-mBefore.Alloc)
55 }
56
153 is an Armstrong number
===== METRICS =====
Simulated Compilation Time: 324.197µs
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Memory Used: 520 bytes
26°C
Mostly cloudy
Search
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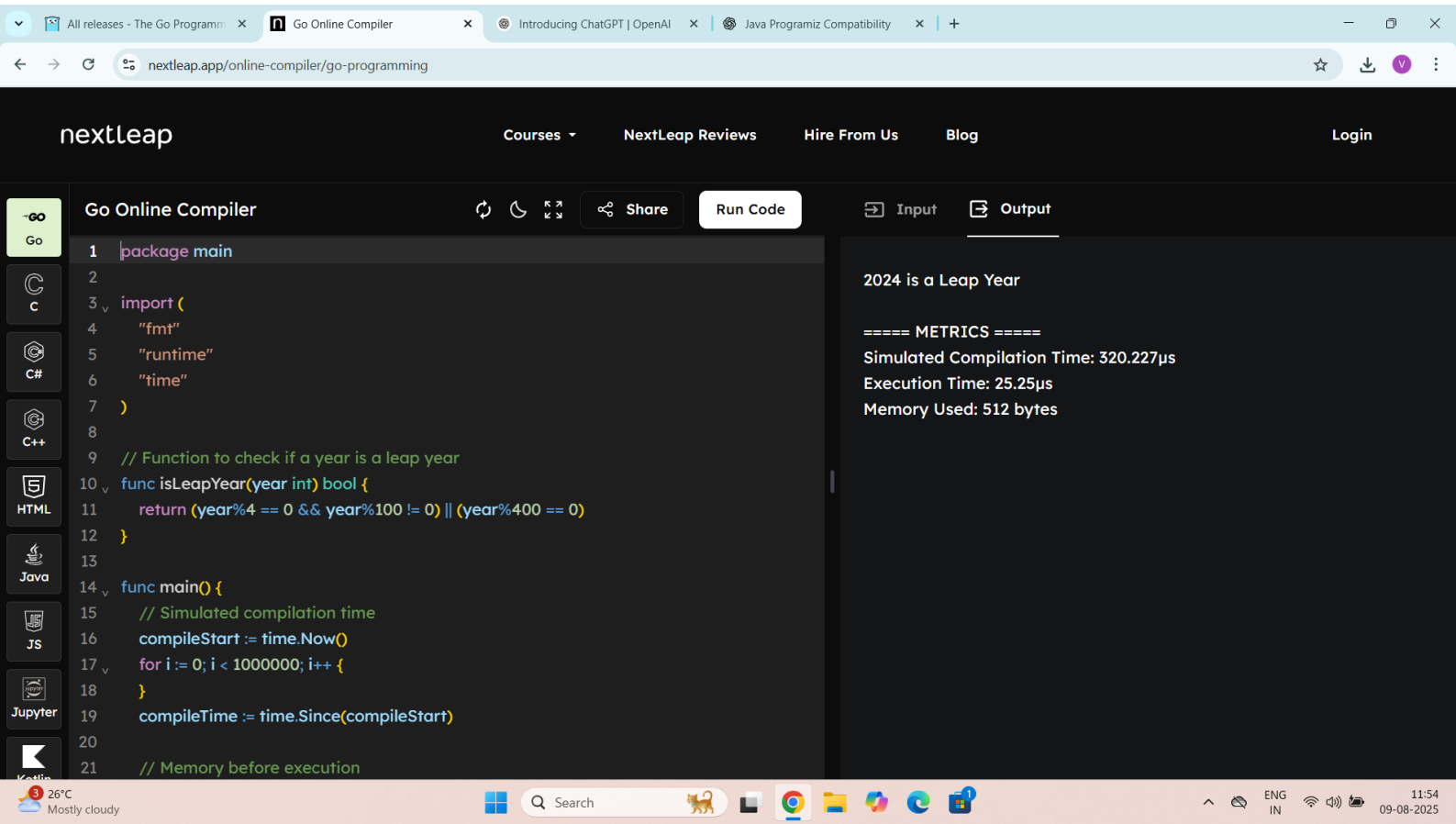
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1 package main
2
3 import (
4 "fmt"
5 "runtime"
6 "time"
7)
8
9 // Function to check if a year is a leap year
10 func isLeapYear(year int) bool {
11 return (year%4 == 0 && year%100 != 0) || (year%400 == 0)
12 }
13
14 func main() {
15 // Simulated compilation time
16 compileStart := time.Now()
17 for i := 0; i < 1000000; i++ {
18 }
19 compileTime := time.Since(compileStart)
20
21 // Memory before execution
2024 is a Leap Year
===== METRICS =====
Simulated Compilation Time: 320.227µs
Execution Time: 25.25µs
Memory Used: 512 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:54
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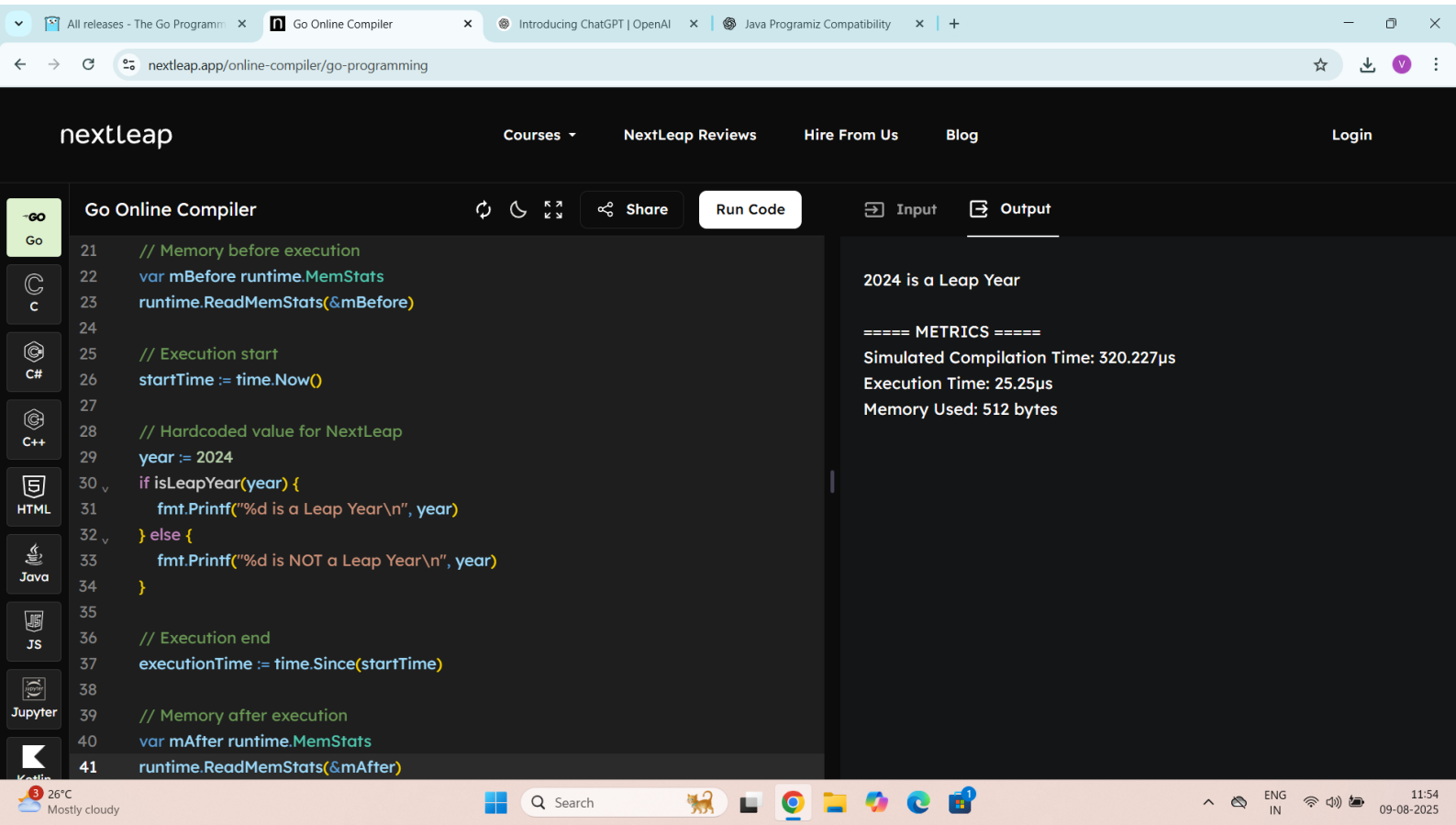
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21 // Memory before execution
22 var mBefore runtime.MemStats
23 runtime.ReadMemStats(&mBefore)
24
25 // Execution start
26 startTime := time.Now()
27
28 // Hardcoded value for NextLeap
29 year := 2024
30 if isLeapYear(year) {
31 fmt.Printf("%d is a Leap Year\n", year)
32 } else {
33 fmt.Printf("%d is NOT a Leap Year\n", year)
34 }
35
36 // Execution end
37 executionTime := time.Since(startTime)
38
39 // Memory after execution
40 var mAfter runtime.MemStats
41 runtime.ReadMemStats(&mAfter)
2024 is a Leap Year
===== METRICS =====
Simulated Compilation Time: 320.227µs
Execution Time: 25.25µs
Memory Used: 512 bytes
26°C
Mostly cloudy
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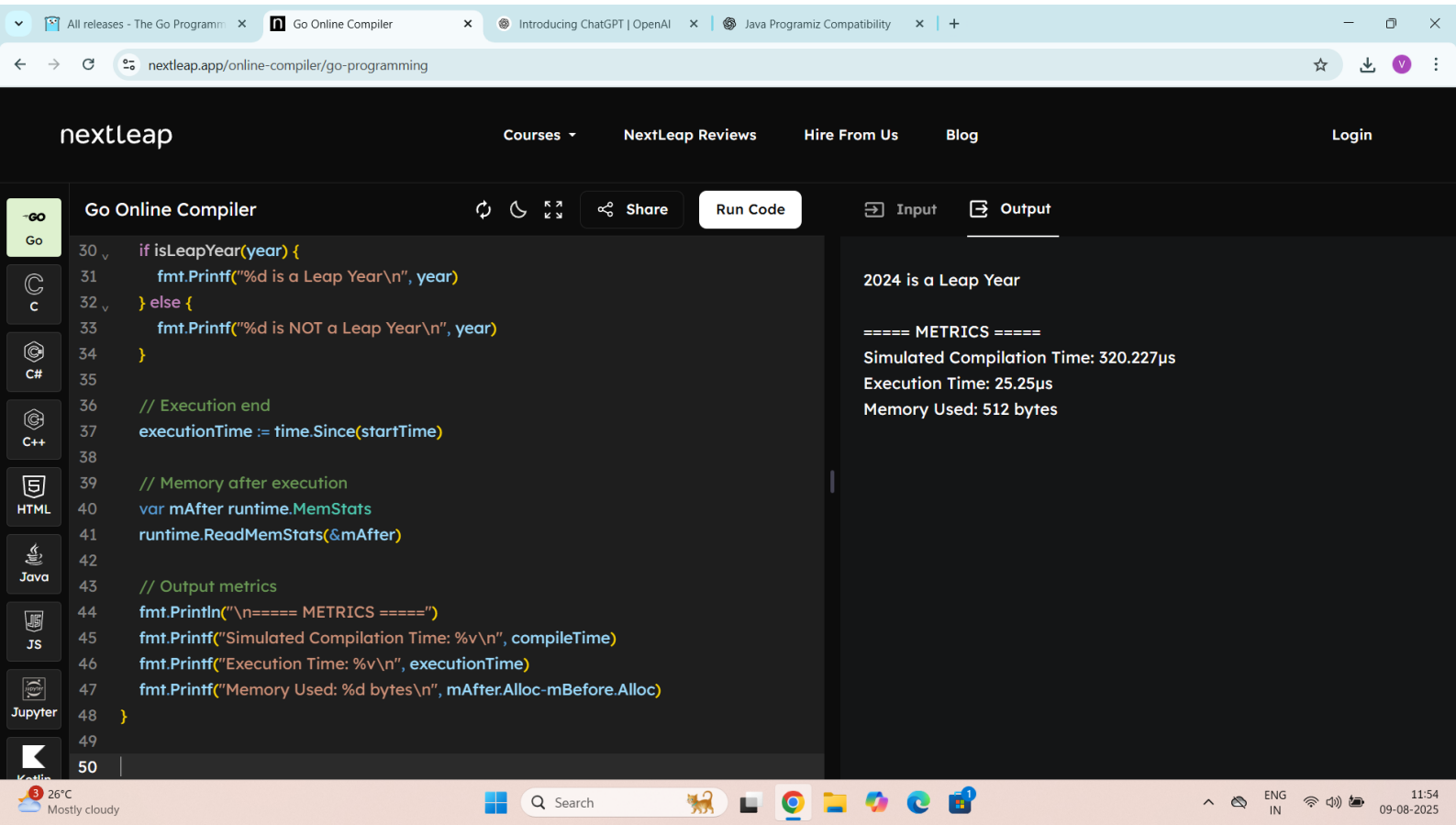
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30 if isLeapYear(year) {
31 fmt.Printf("%d is a Leap Year\n", year)
32 } else {
33 fmt.Printf("%d is NOT a Leap Year\n", year)
34 }
35
36 // Execution end
37 executionTime := time.Since(startTime)
38
39 // Memory after execution
40 var mAfter runtime.MemStats
41 runtime.ReadMemStats(&mAfter)
42
43 // Output metrics
44 fmt.Println("\n===== METRICS =====")
45 fmt.Printf("Simulated Compilation Time: %v\n", compileTime)
46 fmt.Printf("Execution Time: %v\n", executionTime)
47 fmt.Printf("Memory Used: %d bytes\n", mAfter.Alloc-mBefore.Alloc)
48 }
49
50
2024 is a Leap Year
===== METRICS =====
Simulated Compilation Time: 320.227µs
Execution Time: 25.25µs
Memory Used: 512 bytes
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