// go test -run none -bench . -benchtime 3s -benchmem

// Write three benchmark tests for converting an integer into a string. First using the

// fmt.Sprintf function, then the strconv.FormatInt function and then strconv.Itoa.

// Identify which function performs the best.

package main

import (

"fmt"

"strconv"

"testing"

)

var fs string

// BenchmarkSprintf provides performance numbers for the fmt.Sprintf function

func BenchmarkSprintf(b \*testing.B) {

number := 10

var s string

for i := 0; i < b.N; i++ {

s = fmt.Sprintf("%d", number)

}

fs = s

}

// BenchmarkFormat provides performance numbers for the strconv.FormatInt function

func BenchmarkFormat(b \*testing.B) {

number := int64(10)

var s string

for i := 0; i < b.N; i++ {

s = strconv.FormatInt(number, 10)

}

fs = s

}

// BenchmarkItoa provides performance numbers for the strconv.Itoa function

func BenchmarkItoa(b \*testing.B) {

number := 10

var s string

for i := 0; i < b.N; i++ {

s = strconv.Itoa(number)

}

fs = s

}