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item

1. Which of the following expressions does NOT compute the average of two integers a and b?

1 / 1 point

- ☒ avg := 2 % (a + b)
- ☐ avg := float64(a + b) / 2
- ☐ avg := float64(a + b) / 2.0
- ☐ avg := float64(float64(a + b) / 2.0)

✓ Correct

Correct choice: This expression does *not* compute an average.

2. What is printed when the following program is executed?

1 / 1 p

```
1 func main() {  
2     i, _ := strconv.Atoi("10")  
3     y := i * 2  
4     fmt.Println(y)  
5 }  
6
```

- ☐ 1010
- ☐ 10
- ☐ 102
- ☒ 20

✓ **Correct**

Correct! The integer 10 is assigned to the variable i since Atoi() produces an integer. Variable y then receives a value of 20 since it is i multiplied by 2.

3.What is printed when the following program is executed?

1 / 1 p

```
1 func main() {  
2     s := strings.Replace("ianianian", "ni", "in", 2)  
3     fmt.Println(s)  
4 }  
5
```

- ☐ ianianian
- ☒ iainainan
- ☐ iainanian
- ☐ nianiania

✓ **Correct**

Correct! The Replace() function is used to replace the first 2 instances of "ni" with "in". There are only 2 instances of "ni" in the original string, so all instances of "ni" are replaced.

4.What is printed by this code?

1 / 1 p

```
1 func main() {  
2     x:=7  
3     switch {  
4         case x>3:  
5             fmt.Printf("1")  
6         case x>5:  
7             fmt.Printf("2")  
8         case x==7:  
9             fmt.Printf("3")  
10        default:  
11            fmt.Printf("4")  
12    }  
13 }  
14
```

- ☒ 1
- ☐ 2
- ☐ 3
- ☐ 4

**Correct**

That's correct! The switch statement executes the first case in which the condition is true. That is "case x>3".

5.What is printed by this code?

1 / 1 p

```
1 func main() {  
2     var xtemp int  
3     x1 := 0  
4     x2 := 1  
5     for x:=0; x<5; x++ {  
6         xtemp = x2  
7         x2 = x2 + x1  
8         x1 = xtemp  
9     }  
10    fmt.Println(x2)  
11 }  
12
```

- ☐ 5
- ☐ 13
- ☒ 8
- ☐ 4

**Correct**

Correct! The loop generates successive numbers in the fibonacci series. The loop iterates 5 times and x1 and x2 are initialized to the first 2 numbers in the series, so the 7th number in the series is generated, 8.

6. True or False:**1 / 1 p**

This code compiles correctly.

```
1 func main() {  
2     var x int  
3     var y *int  
4     z := 3  
5     y = &z  
6     x = &y  
7 }  
8
```

☐ True

☒ False

✓ **Correct**

That's right! This code does not compile correctly. The variable y is declared to be a pointer, but x is not a pointer, it is an integer. The statement "x = &y" attempts to assign x to be a pointer to a pointer. Since x is not a pointer at all, this causes an error.

7. Which integer type provides higher accuracy?**1 / 1 point**

☐ int16

☐ int32

☐ int

☒ All of these types provide the same accuracy

✓ **Correct**

That's correct! All of the types are equally accurate. The number of bits only reflect the range of integers (maximum and minimum) that can be represented.