# Ejercicios a resolver

**Teresa Tapia Soto**

**Junio 2021**

**Pregunta 1**

1) The following code prints:

```
x="\\\"

print(len(x))
```

    a) The code will cause an error
    b) 1
    c) 3
    d) 2

2) You run the code below from the file editor

```
usa_gold = 46
uk_gold = 27
romania_gold = 1
total_gold = usa_gold + uk_gold + romania_gold
print(total_gold)
romania_gold += 1
print(total_gold)
```

    a) 74  74
    b) 74 75
    c) 74
    d) 75

3) What is the value of variable `u` from the code below?

```
one = "umbr"
repeat =  "ella"
u= once +  (repeat + " ")*4
```

    a) umbrella ella ella ella
    b) umbrellaellaellaella

c) umbrella
d) umbrella4

4) What's printed when x = 0 and y = 5?

```
x=float(input("Enter a number for x:  "))
y=float(input("Enter a number for y:  "))
if x==y:
    if y!=0:
        print("x / y is" x / y)
elif x < y:
    print("x is smaller")
else:
    print("y is smaller")
```

a) x is smaller
b) y is smaller
c) x / y is 0.0

5) What is printed when the below code is run?

```
mysum = 0
for i in range(5, 11, 2):
    mysum += i
    if mysum == 5:
        break
        mysum += 1
print(mysum)
    print("y is smaller")
```

a) 5
b) 6
c) 21
d) 24

6) In the code below, what is printed when you type "Right"?

```
n = input("You're in the Lost Forest. Go left or right? ")
while n == "right":
    n = input("You're in the Lost Forest. Go left or right? ")
print("You got out of the Lost Forest!")
```

a) You're in the Lost Forest. Go left or right?
b) You got out of the Lost Forest!

7) What does the code below print?

```
pset_time = 15
sleep_time = 8
print(sleep_time > pset_time)
derive = True
drink = False
both = drink and derive
print(both)
```

   a) False False
   b) False True
   c) True False
   d) True True

8) What does the code below print?

```
s = "6.00 is 6.0001 and 6.0002"
new_str = ""
new_str += s[-1]
new_str += s[0]
new_str += s[4::30]
new_str += s[13:10:-1]
print(new_str)
```

   a) 260000
   b) 26100
   c) 26 100
   d) nothing, it will give an error
   e) 6.00 is 6.0001 and 6.0002

9) You run the code below from the editor. What's printed?

```
type(5)
print(3.0-1)
```

   a) int
   b) 2.0
   c) int 2.0
   d) nothing

10) How many times will the code below print "common letter"?

```
s1 = "mit u rock"
s2 = "i rule mit"
if len(s1) == len(s2):
    for char1 in s1:
        for char2 in s2:
            if char1 == char2:
                print("common letter")
                break
```

a) 0
b) 2
c) 4
d) 5
e) 6
f) 7
g) 8
h) 10

11) How many stars will the following snippet send to the console?

```
i = 2
While i >= 0:
    print("*")
    I -=2
```

a) 3
b) 1
c) 2
d) 4

12) How many hashes will the following snippet send to the console?

```
for i in range(-1,1):
    print("#")
```

a) 3
b) 2
c) 1
d) 4

13) A value returned by the input() function is:

```
for i in range(-1,1):
    print("#")
```

    a) a string
    b) a float
    c) an integer

14) A keyword is a word that:
    a) cannot be used as a variable name
    b) is the key to the puzzle
    c) is the most important word in the whole program

15) Right-sided binding means that the following expression:

```
1**2**3
```

    a) from right to left
    b) from left to right
    c) in random order

16) Only one of the following statements is true – which one?

    a) Addition precedes multiplication
    b) Multiplication precedes addition
    c) Neither statement can be evaluated

17) The result of the following addition:

```
123 + 0.0
```

    a) Is equal to 123
    b) Is equal to 123.0
    c) Cannot be evaluated

18) The  // operator:

    a) performs regular division
    b) performs integer dividion

c) does not exist

19) The escape character owes its name to the fact that it:

a) cannot be caught to its high speed
b) changes the meaning of the character next to it
c) escapes from source files into the computer memory

20) What is the output of the following snippet?:

```
x = 2 + 3 * 5
print(X)
```

a) 17
b) 25.0
c) The snippet will cause an execution error
d) 17.0

21) The result of the following division:

```
1 / 1
```

a) cannot be predicted
b) is equal to 1
c) cannot be evaluated
d) is equal to 1.0

22) One of the following variables' names is illegal – which one?

a) tRUE
b) True
c) True
d) TRUE

23) The \n digraph forces the print() function to:

a) duplicate the character next to the digraph
b) output exactly two characters: \ and n
c) stop its execution

d) break the output line

24) The ** operator
   a) performs duplicated multiplication
   b) performs floating-point multiplication
   c) does not exist
   d) performs exponentiation

25) What is the output of the following snippet?

```
x=1
y=2
z=x
x=y
y=z
print(x,y)
```

   a)  2 2
   a)  1 1
   b)  2 1
   c)  1 2