Pre-Quiz

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Note that after you have used all of your attempts or answered the question correctly, you can use the "show answer" button to see additional explanatory material for most questions. Good luck on the pre-quiz!

Question 1

1/1 point (ungraded)
Consider the following code:

```
      import math
print(math.cos(math.pi))
-1.0
```

What type of object is `math.pi` ?

- ○ `int` (integer)
- ◉ `float` (real number)
- ○ `function`
- ○ `string`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 2

1/1 point (ungraded)
Again consider the code:

```
      import math
print(math.cos(math.pi))
-1.0
```

what type of object is `math.cos` ?

- ○ `int` (integer)
- ○ `float` (real number)
- ◉ `function`
- ○ `string`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 3

1/1 point (ungraded)

Consider the following code:

```
      nums = set([1, 1, 2, 2, 3, 3, 3, 4])
print(len(nums))
```

What does this return?

- ○ This code contains an error.
- ◉ `4`
- ○ `8`
- ○ `len([1, 1, 2, 2, 3, 3, 3, 4])`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 4

1/1 point (ungraded)

Consider the following code:

```
      a=[1,2,3]
a[1]=4
```

What is `a`?

- ○ This code contains an error.
- ○ `[1,2,3]`

Hide Notes

- [ ] `[1,2,3,1]`
- [ ] `[4,2,3]`
- [x] `[1,4,3]`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 5

1/1 point (ungraded)

Consider the following code:

```
a=(1,2,3)
a[1]=4
```

What is `a`?

- [x] This code contains an error.
- [ ] `[1,2,3]`
- [ ] `[1,2,3,1]`
- [ ] `[4,2,3]`
- [ ] `[1,4,3]`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 6

1/1 point (ungraded)

Consider the following code and output:

```
      a = [1,2,3]

b = a
a == b
True
a is b
True

b = a[:]
a == b
True
a is b
False
```

Hide Notes

Why is the last statement false?

- ○ This code contains an error.
- ○ `a` and `b` refer to the same object and therefore have same contents.
- ◉ `a` and `b` refer to different objects that have identical content.
- ○ `a` and `b` refer to the same objects but have different content.
- ○ `b` is an empty list.

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 7

1/1 point (ungraded)
Again consider the code:

```
      x = "Hello, world!"
y = x[5:]
```

What is the value of `y`?

- ○ This code contains an error.
- ○ `'Hello'`
- ○ `'Hello '`
- ◉ `', world!'`
- ○ `'o, world!'`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 8

1/1 point (ungraded)
Again consider the code:

```
      y = [x**2 for x in range(5)]
```

Hide Notes

What is the value of `y`?

- ○ This code contains an error.
- ○ `[0, 2, 4, 6, 8]`
- ○ `[2, 4, 6, 8, 10]`
- ◉ `[0, 1, 4, 9, 16]`
- ○ `[1, 4, 9, 16, 25]`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 9

1/1 point (ungraded)

Consider the following code and output:

```
      x = 1
def my_function():
    x = 2
    print(x)
print(x)
my_function()
print(x)
```

What will be printed?

Note that here, we separate lines of output with "`;`".

- ○ This code contains an error.
- ◉ `1; 2; 1`
- ○ `2; 2; 2`
- ○ `1; 2; 2`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 10

1/1 point (ungraded)

Let's say you want to flip a coin until you get 10 heads. Should you use a `for` loop or a `while` loop?

- ○ A `for` loop

Hide Notes

- (●) A `while` loop

✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 11

1/1 point (ungraded)

Let's say you want to flip a coin 10 times and count the number of heads. Should you use a `for` loop or a `while` loop?

- (●) A `for` loop
- ( ) A `while` loop

✔

Submit You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 12

1/1 point (ungraded)

Consider the following code and output:

```
      x = 1
while x < 5:
    x *= 2
```

What is the final value of `x`?

- ( ) This code contains an error.
- ( ) `2`
- ( ) `5`
- (●) `8`
- ( ) `10`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 13

Hide Notes

1/1 point (ungraded)

Consider the following code and output:

```
    for integer in (-1,3,5):
if integer < 0:
    print("negative")
else:
    print("non-negative")
```

How many lines of text does this print?

- ◯ This code contains an error.
- ◯ `0`
- ◯ `1`
- ◯ `2`
- ◉ `3`

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 14

1/1 point (ungraded)

Which data structure would best represent average latitude and longitude for each city in a group of cities, accessible by city name?

- ◯ A `tuple` of `string` city names, latitudes, and longitudes.
- ◯ A `list` of `tuples`, each containing a `string` city name, and a `float` for both latitude and longitude.
- ◯ A `set` of `string` city names, latitudes, and longitudes
- ◉ A `dict` with `string` city name keys and `tuple` latitude/longitude values.

✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 15

1/1 point (ungraded)

Consider the following code and output:

```
    x = 'String'
y = 10
```

Hide Notes

```
z = 5.0
print(x + x) # print command 1
print(y + y) # print command 2
print(y + x) # print command 3
print(y + z) # print command 4
```

Which of the following print commands will work?

- None: this code contains an error.
- `1`
- `1; 2`
- `1; 2; 3`
- `1; 2; 4`
- `1; 2; 3; 4`

✔

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✔ Correct (1/1 point)

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