



# Python Homework

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# 9



496. What will be the output after the following statements?

```
x = ['Today', 'Sunday', 'Monday'] y = [4, 6, 8] print(y + x)
```

- a. ['Today', 'Sunday', 'Monday', 4, 6, 8] b. [4, 6, 8, 'Today', 'Sunday', 'Monday']  
c. ['Today', 'Sunday', 'Monday'] d. [4, 6, 8]

497. What will be the output after the following statements?

```
x = 'Monday' print('Mon' in x)
```

- a. 'Mon' in x b. 'Monday' in x c. True d. False

498. What will be the output after the following statements?

```
x = 'Monday' print('Day' not in x)
```

- a. 'Day' not in x b. 'Monday' not in x c. True d. False

499. What will be the output after the following statements?

```
x = ['hot', '100', True] weather = x[0] temperature = x[1] humid = x[2] print(weather, temperature, humid)
```

- a. x b. ['hot', '100', True] c. 'hot', '100', True d. hot 100 True

500. What will be the output after the following statements?

```
x = ['hot', '100', True] weather, temperature, humid = x print(weather, temperature, humid)
```

- a. ValueError b. ['hot', '100', True] c. 'hot', '100', True d. hot 100 True

501. What will be the output after the following statements?

```
x = ['hot', '100', True] weather, humid = x print(weather, humid)
```

a. ValueError b. hot 100 c. hot True d. hot 100 True

502. What will be the output after the following statements?

```
x = ['hot', '100', True] x.remove('100') weather, humid = x print(weather, humid)
```

a. ValueError b. hot 100 c. hot True d. hot 100 True

503. What will be the output after the following statements?

```
x = ['a', 'b', 'c', 'A', 'B', 'C'] x.sort() print(x)
```

a. SortError b. ['a', 'b', 'c', 'A', 'B', 'C'] c. ['a', 'A', 'b', 'B', 'c', 'C'] d. ['A', 'B', 'C', 'a', 'b', 'c']

504. What will be the output after the following statements?

```
x = ['a', 'b', 'c', 'A', 'B', 'C'] x.sort(key=str.lower) print(x)
```

a. SortError b. ['a', 'b', 'c', 'A', 'B', 'C'] c. ['a', 'A', 'b', 'B', 'c', 'C'] d. ['A', 'B', 'C', 'a', 'b', 'c']

505. What will be the output after the following statements?

```
x = ['a', 'b', 'c', 'A', 'B', 'C'] x.sort(key=str.swapcase) print(x)
```

a. TypeError b. ['a', 'b', 'c', 'A', 'B', 'C'] c. ['a', 'A', 'b', 'B', 'c', 'C'] d. ['A', 'B', 'C', 'a', 'b', 'c']

506. What will be the output after the following statements?

```
x = ['a', 'b', 1, 2, 'A', 'B'] x.sort() print(x)
```

a. TypeError b. ['a', 'b', 'c', 'A', 'B', 'C'] c. ['a', 'A', 'b', 'B', 'c', 'C'] d. ['A', 'B', 'C', 'a', 'b', 'c']

507. What will be the output after the following statements?

```
import random x = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']  
print(x[random.randint(0, len(x) - 1)])
```

a. IndexError b. A random day from all the seven days  
c. A random day from all the days except Sunday d. A random day from all the days except Monday

508. What will be the output after the following statements?

```
x = 'Today is a nice day' + \ ' I will go for a walk today' print(x)
```

a. SyntaxError b. Today is a nice day c. I will go for a walk today d. Today is a nice day I will go for a walk today

509. What will be the output after the following statements?

```
x = 'Today is a nice day' x[9] = 'not ' print(x)
```

a. TypeError b. Today is a nice day c. SyntaxError d. Today is not a nice day

510. What will be the output after the following statements?

```
x = 'Today is a nice day' y = x[:9] + 'not ' + x[9:] print(y)
```

a. TypeError b. Today is a nice day c. SyntaxError d. Today is not a nice day

511. What will be the output after the following statements?

```
x = 'Today is a nice day' y = x[:9] + 'not ' + x[9:] print(x)
```

a. TypeError b. Today is a nice day c. SyntaxError d. Today is not a nice day

512. What will be the output after the following statements?

```
x = 'Today is not a nice day' x = 'Today is a nice day' print(x)
```

a. TypeError b. Today is a nice day c. SyntaxError d. Today is not a nice day

513. What will be the output after the following statements?

```
x = ('Today', 'nice', 'day') x[1] = 'not' print(x)
```

a. TypeError b. ('Today', 'nice', 'day') c. SyntaxError d. ('Today', 'not', 'nice', 'day')

514. What will be the data type of the output after the following statements?

```
x = ('Today') print(x)
```

a. TypeError b. String c. Tuple d. List

515. What will be the data type of the output after the following statements?

```
x = ('Today',) print(x)
```

a. TypeError b. String c. Tuple d. List

Answer Key

# Algorithm Homework (#28)

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**3개의 각으로 삼각형의 예각, 직각, 둔각을 구별하는 프로그램을 만드세요.**

[60, 60, 60] = 예각삼각형

[30, 60, 90] = 직각삼각형

[20, 40, 120] = 둔각삼각형

[0, 90, 90] = 삼각형이 아니다

[60, 70, 80] = 삼각형이 아니다

[40, 40, 50, 50] = 삼각형이 아니다

예각삼각형 : 3개의 각이 모두 예각인 삼각형

직각삼각형 : 1개의 각이 직각인 삼각형

둔각삼각형 : 1개의 각이 둔각인 삼각형

① 각이 3개가 아닐 경우 삼각형이 아니다.

② 3개의 각의 합이  $180^\circ$ 가 아닐 경우

삼각형이 아니다.



```
def search (x,y,z):
```

```
    if x
```

```
    else
```

```
    return ''
```

```
x=int(input('제1각을 입력하세요'))
```

```
y=int(input('제2각을 입력하세요'))
```

```
z=int(input('제3각을 입력하세요'))
```

```
print(search(x,y,z))
```