

2022111000

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A2Q1

word='My email address is wang.lu@mail.shufe.edu.cn It was created on 1st Sept. 2017 Friday'

num=0

```
for i in word:
    if i=='e':
        num=num+1
```

print(num)

g1=word.find('@')

g2=word.find(' ',g1)

host=word[g1+1:g2]

print(host)

a=word.find('on')

time=word[a+2:]

time_1=time.split()

print(time_1)

A2Q2

issue={'Jack':'Python 19','Mike':'Java 20','Tracy':'C++ 21'}

```
for x,y in issue.items():
```

```
    print(x,y)
```

A2Q3

```
for i in range(1,10):
```

```
    for j in range(i):
```

```
        j=j+1
```

```
        p=j*i
```

```
        print(f"{i}*{j}={p}",end=" ")
```

```
    print()
```

A2Q4

```
def fib(n):
```

```
    if n==1:
```

```
        print(1)
```

```
    elif n==2:
```

```
        print(1,1)
```

```
    elif n>2:
```

```
        print(1,1,end=" ")
```

```
    count = 0
```

```
    n1 = 1
```

```
    n2 = 1
```

```
    while count < n-2:
```

```
        nth = n1 + n2
```

```
        n2=n1
```

```
        n1=nth
```

```
        count=count+1
```

```
        print(nth,end=" ")
```

fib(8)

A2Q5

```
def noDuplicates(x):
```

```
    d={}
```

```
    for n in x:
```

```
        d[n]=d.get(n,0)+1
```

```
    for t in d.keys():
```

```

        print(t,end=' ')
A2Q6
y = [-1,0,1,2,-1,-4,6,-2]

def function1_finding(y):
    triplets = []
    i = 0
    for a in y[:len(y)-2]:
        i = i + 1
        j = i
        for b in y[i:len(y)-1]:
            j = j + 1
            for c in y[j:]:
                if a + b + c == 0:
                    array = [a,b,c]
                    array.sort()
                    triplets.append(array)
    return triplets

def function2_selecting(x):
    noduplicates = []
    for m in x:
        if m in noduplicates:
            True
        else:
            noduplicates.append(m)
    return noduplicates

def threeSum(y):
    return function2_selecting(function1_finding(y))
print(threeSum(y))

```