

## Answer Sheet - Dilshan Perera

(1)

"""How the array 'a' is entered isn't specified  
So, I assumed integers are entered with spaces"""

#To create the array 'a'

```
a = input().split()
for k in range(len(a)):
    a[k] = int(a[k])
```

#To get the length of array 'a'

```
len = int(input())
```

```
max_ = a[0]
```

```
secMax = a[0]
```

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

```
    if a[i] > max_:
```

```
        secMax = max_
```

```
        max_ = a[i]
```

```
    elif a[i] > secMax and a[i] != max_:
```

```
        secMax = a[i]
```

#prints the maximum integer

```
print(max_)
```

#prints the second maximum integer

```
print(secMax)
```

(2)

```
str = list(input())
```

```

len = int(input())
i = int(input())
n = int(input())
final = ""

for j in range(len):
    if j >= i and j < (i+n):
        final += ""
    else:
        final += str[j]

print(final)

```

(3)

""""Here also, how the data array is entered isn't specified  
So, I assumed time series data are entered with spaces"""

```

a = input().split()
for k in range(len(a)):
    a[k] = int(a[k])

```

```

f = int(input())
n = int(input())

```

```

samples = (f/60)*n
sampleSize = n/samples
sampleSize = int(sampleSize)
final = []
avg = 0

```

```

#This loop is faulty. Didn't have enough time to figure it out.
for i in range(1, n+1, sampleSize):

```

```
    for i in range(i, i+sampleSize-1):
        avg += a[i]
    avg = avg/sampleSize
    final.append(avg)

print(final)
```