ABHISHEK SHARMA

CS 2ND YEAR

SECTION : “I”

ROLL NO.: 01

ENROLLMENT NO.: 12019009001127

DATA STRUCTURE AND ALGORITHM LABORATORY

WEEK : 8

ASSIGNMENT : 8

DATE : 01.09.2020

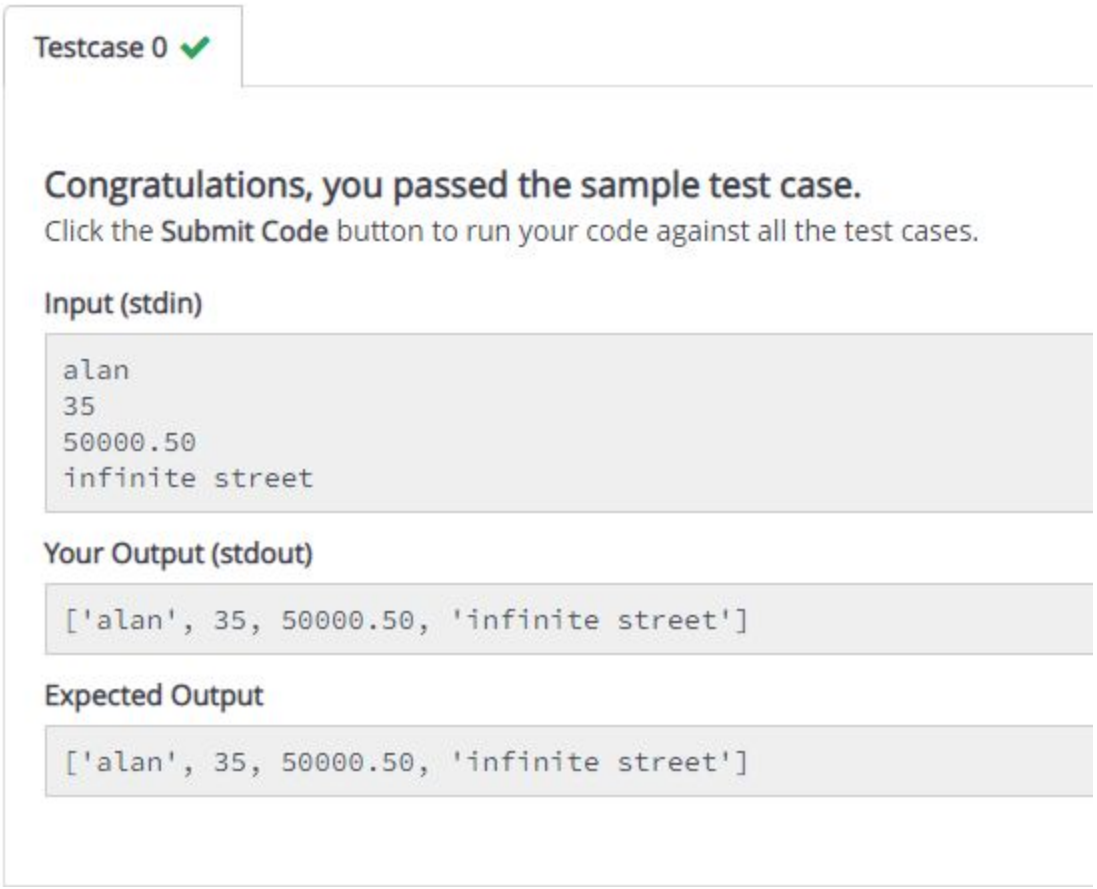
HACKERRANK ID : 12019009001127_I

Q1. create a list having the name,age,salary and address of a person. enter name,age,salary and address as input.

CODE :

```
name = input()
age = int(input())
salary = input()
address = input()
print("['{}', {}, {}, '{}']".format(name,age,salary,address))
```

OUTPUT :

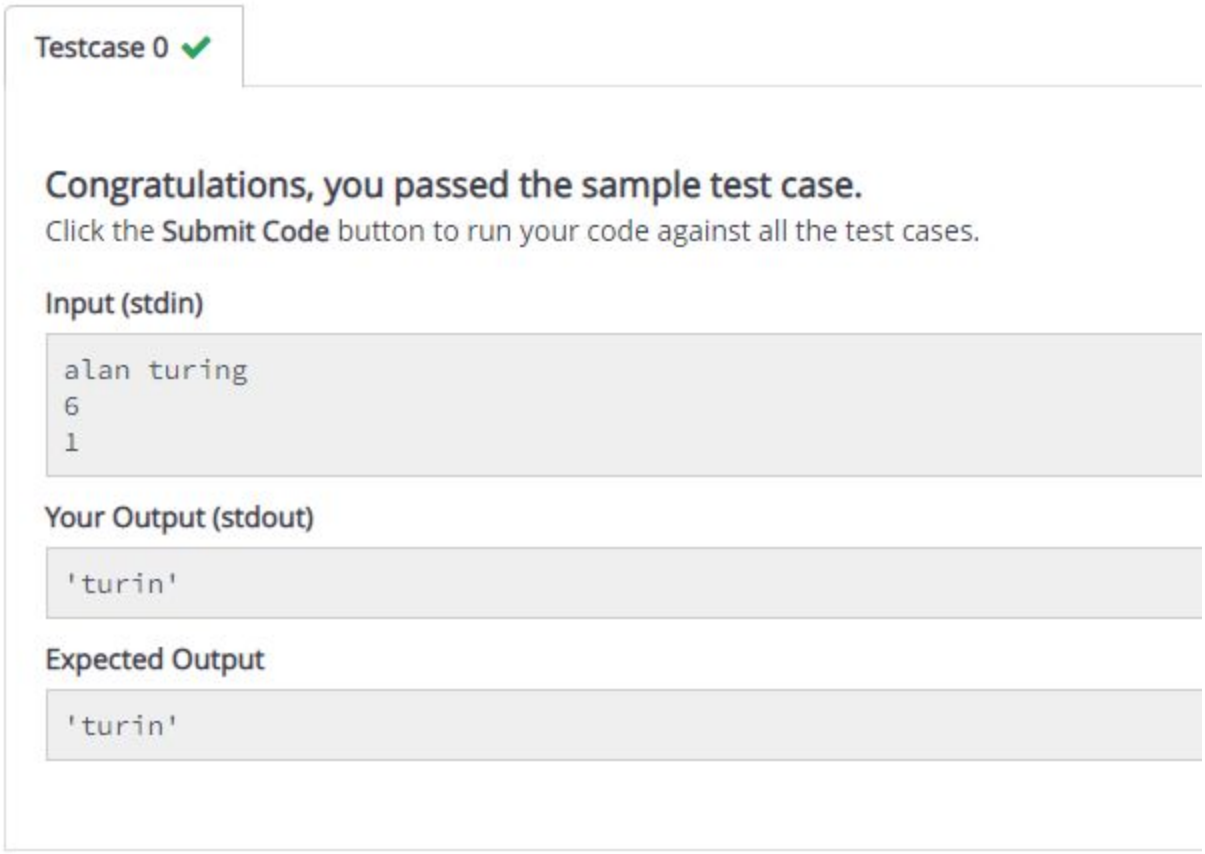


Q2. take a string as input. use negative slicing to print a substing

CODE :

```
str = input()
start = int(input())
end = int(input())
n = len(str)
a = n - (start - end)
print ("'{}'".format(str[(-a):(-end)]))
```

OUTPUT :

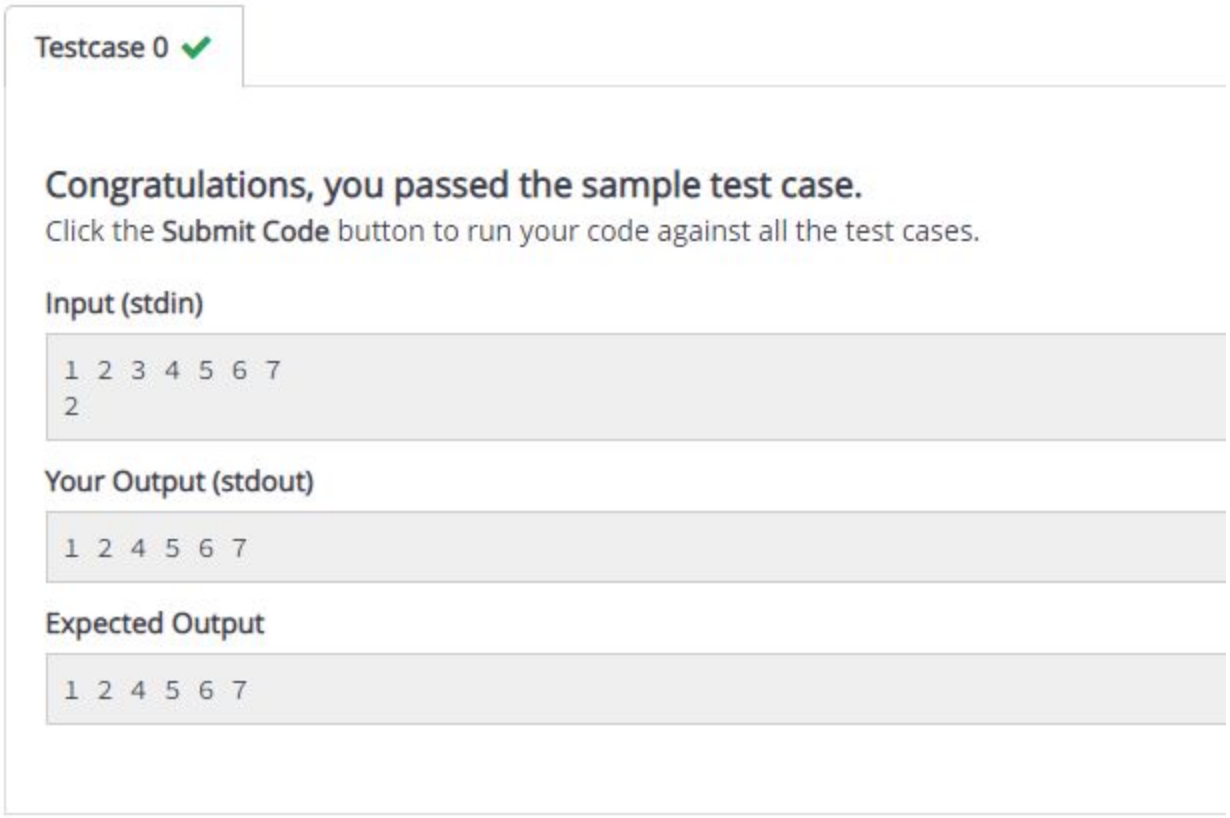


Q3. given a list in python. delete the element of a given position

CODE :

```
x = input()
n = int(input())
list1 = [x]
a = x.split(sep = ' ')
del a[n]
print (*a)
```

OUTPUT :

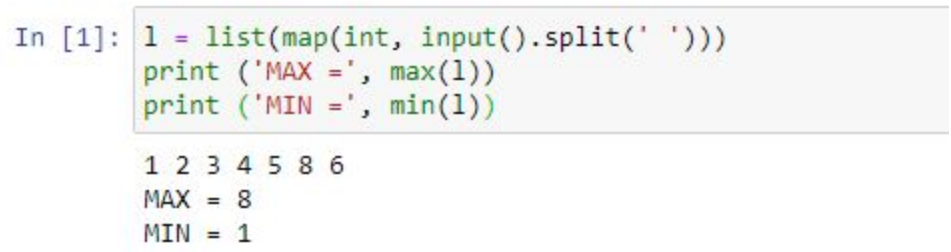


Q4. given a list of elements. find the maximum and minimum of the list using library fucntion

CODE :

```
l = list(map(int, input().split(' ')))
print ('MAX =', max(l))
print ('MIN =', min(l))
```

OUTPUT :

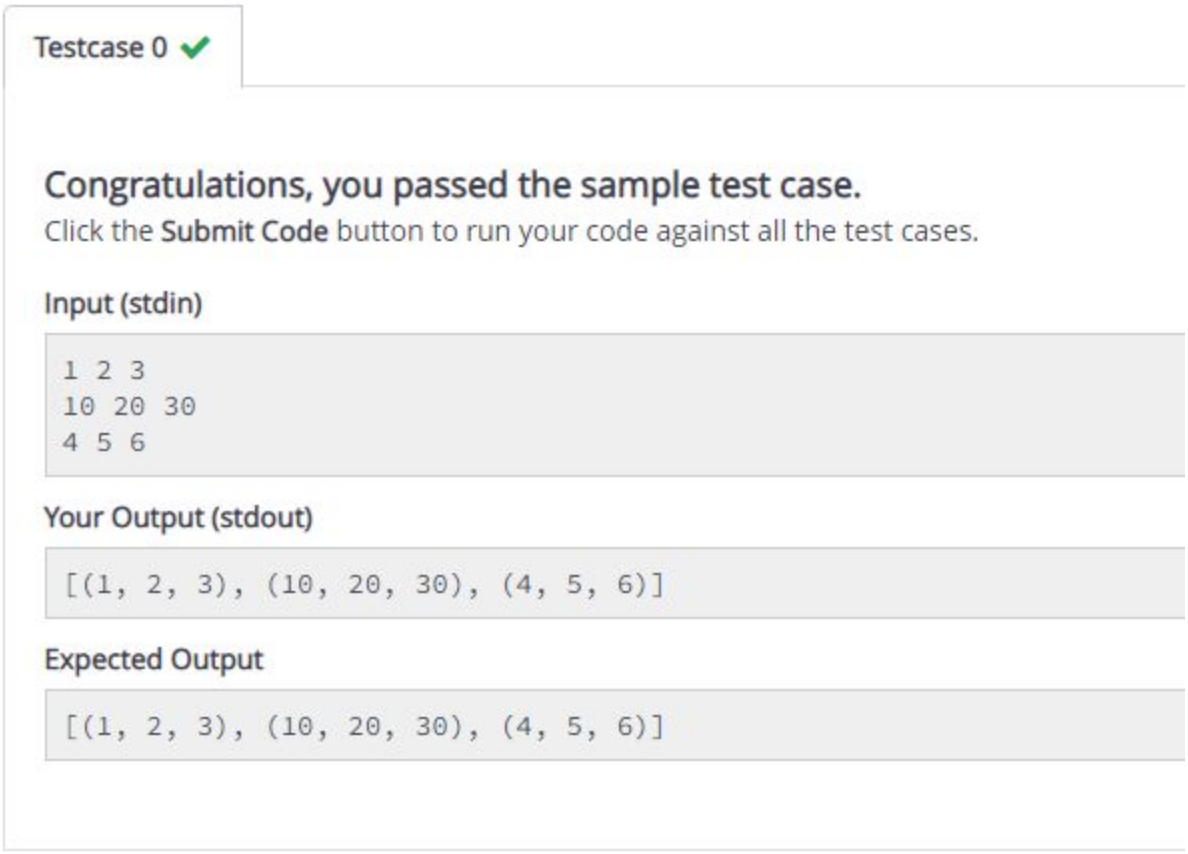


Q5. create a list of tuples.

CODE :

```
tup1 = tuple(int(x) for x in input().split())
tup2 = tuple(int(x) for x in input().split())
tup3 = tuple(int(x) for x in input().split())
t4 = [tup1, tup2, tup3]
print(t4)
```

OUTPUT :

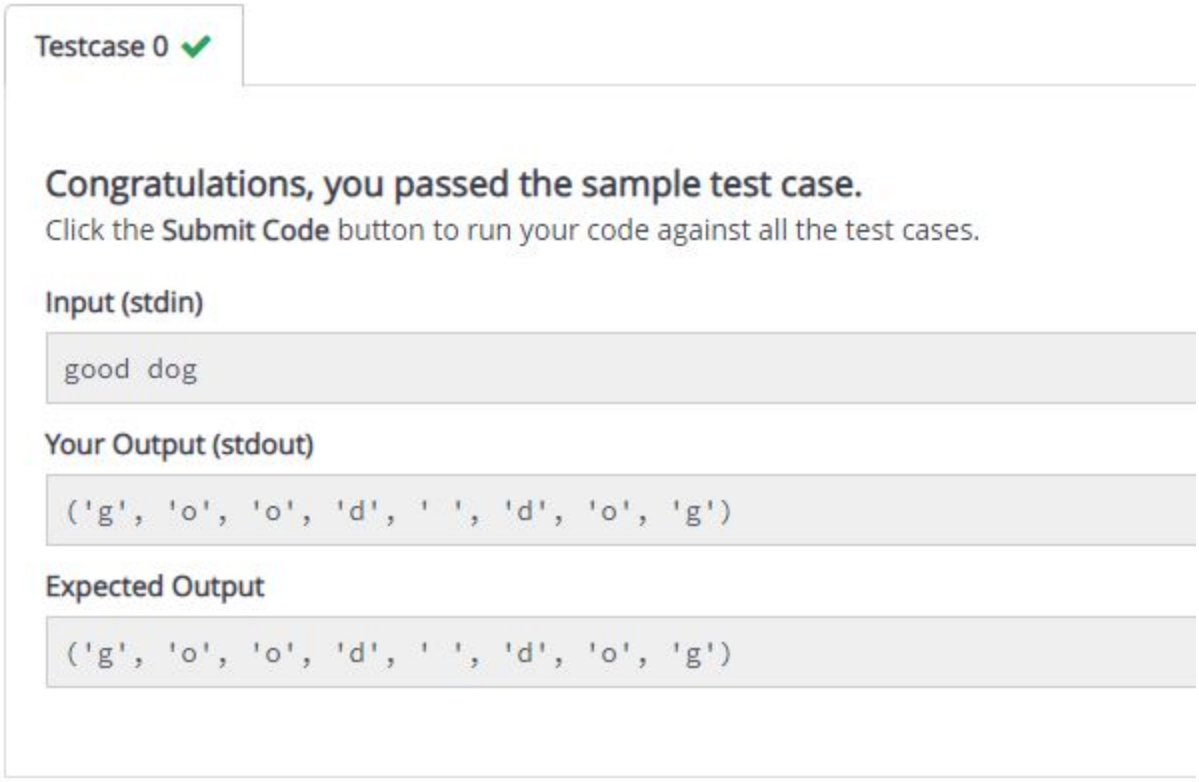


Q6. given a string. convert it into a tuple

CODE :

```
a=input()
b=tuple(a)
print("{}".format(b))
```

OUTPUT :

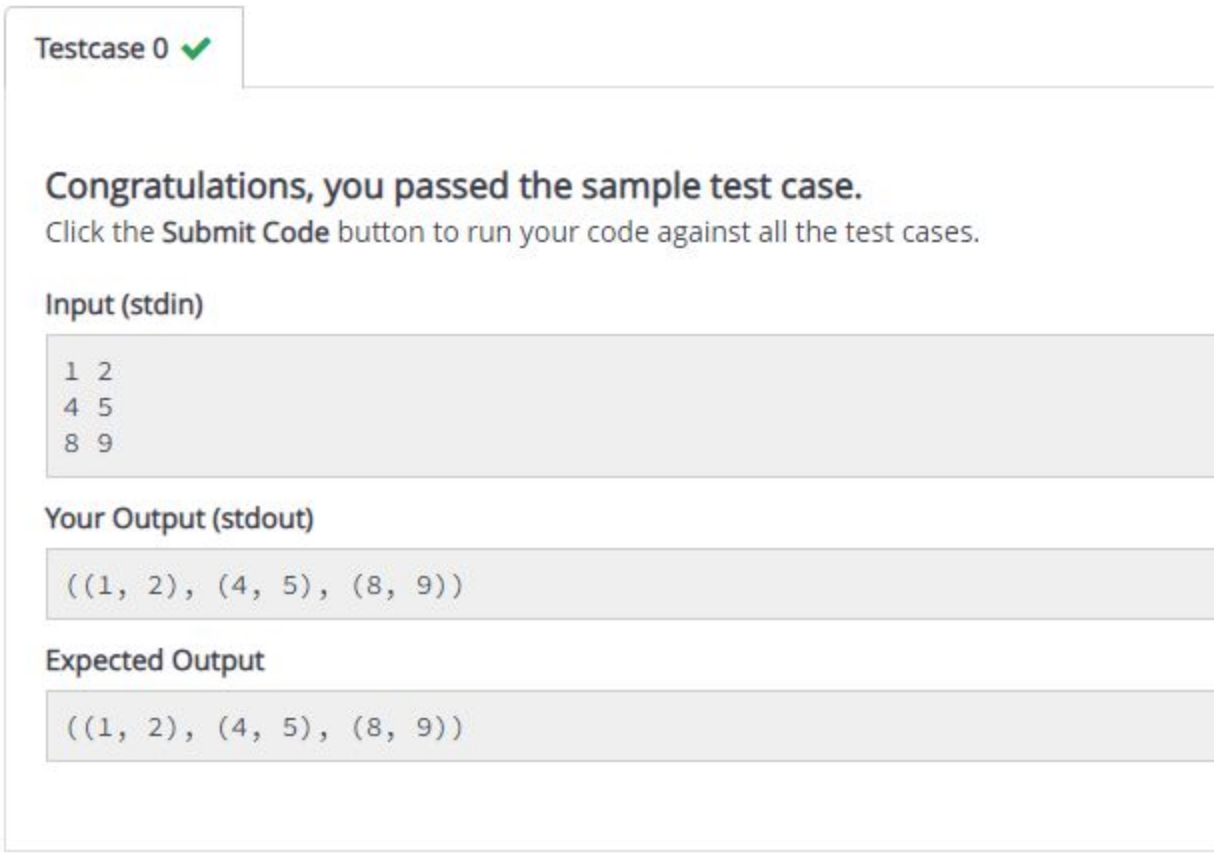


Q7. concatenate 3 given tuples

CODE :

```
t1 = tuple(int(x) for x in input().split())
t2 = tuple(int(x) for x in input().split())
t3 = tuple(int(x) for x in input().split())
t4 = (t1, t2, t3)
print(t4)
```

OUTPUT :

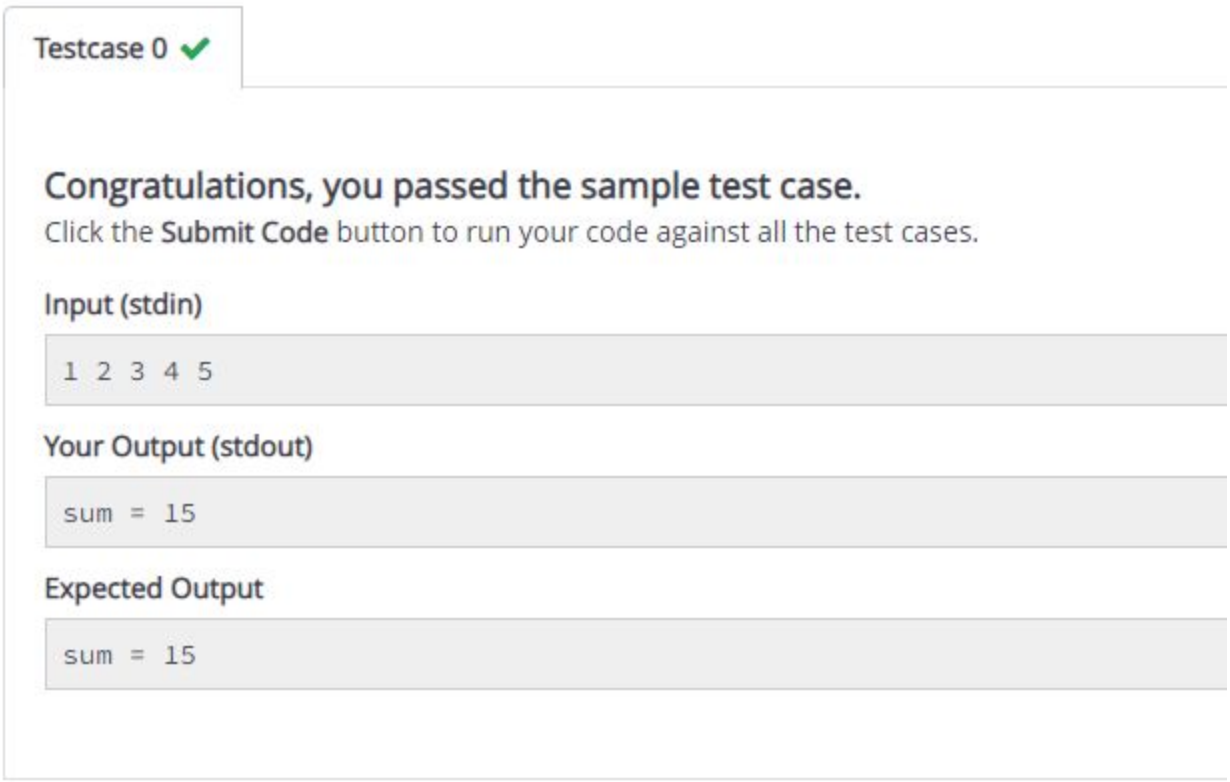


Q8. given a tuple. find the sum of its elements

CODE :

```
t1 = tuple(int(x) for x in input().split())
res = sum(list(t1))
print("sum = " +str(res))
```

OUTPUT :



Q9. given a tuple. print its element in between a range

CODE :

```
x = input()

t1 = x.split(sep=' ')
y = len(t1)
for i in range(0,y,1):
    t1[i] = int(t1[i])
t1 = tuple(t1)
start = int(input())
end = int(input())
print(t1[start:end:1])
```

OUTPUT :