In [10]:
```
A=input().split()
B=input().split()
count=0
for i in range(len(A)):
    if A[i]==B[i]:
        count=count+1
print(count)
```

```
1 1 0 1 1
1 1 0 0 0
3
```

In [12]:
```
li=input().split()
counter=0
num=li[0]
for i in li:
    cur=li.count(i)
    if(cur>counter):
        counter=cur
        num=i
print(num)
```

```
 1 2 2 4 5
2
```

In [72]:
```
#Print factorial of a given number if it is a prime otherwise print power of
num=int(input())
fact=1
if num > 1:
    for i in range(2,num):
            if (num % i) == 0:
                print(num*num)
                break
            else:
                fact=fact*i

print(fact)
```

```
5
2
6
24
```

In [92]:
```
#print count and sum of digits in a given string
m=input()
n=list(map(int,m.split()))
c=0
count=0
for i in n:
    c+=i
    count+=1
print(c)
print(count)
```

```
1 2 3 4
10
4
```

In [2]:
```
# mahesh
#1 3
#o/p:haMesh
s=input()
li=list(map(int,input().split()))
s1=""
s2=s[li[0]-1:li[1]]
s2=s2[::-1]
for ch in s[li[1]:]:
    s2+=ch
print(s2)
```

```
mahesh
1 3
hamesh
```

In [96]:
```
x=input()
if x==x[::-1]:
    print("palin")
else:
    print("not")
```

```
anee
not
```

Tuple

In [7]:
```
#t=() or tuple()
t=(12,"sdc",12.34)
t.count(12)
t.index('sdc')
```

Out[7]: 1

In [4]:
```
t[0]
len(t)
```

...

Dictionary

In [9]:
```
myList=[]
print(type(myList))
```

```
<class 'list'>
```

In [11]:
```
mylist=(1)# becomes int if you give one only in tuple
print(type(mylist))
```

```
<class 'int'>
```

In [12]:
```
mylist=(1,2)
print(type(mylist))
```

```
<class 'tuple'>
```

In [15]:
```
words={"name":"hi","branch":"cse"}
print(words,type(words))
```

```
{'name': 'hi', 'branch': 'cse'} <class 'dict'>
```

In [16]:
```
print(words['name'])
```

```
hi
```

In [19]:
```

words['name']='anee'
print(words)
```

```
anee
{'name': 'anee', 'branch': 'cse'}
```

In [21]:
```
dam={'name':'aneesha','branch':'cse','name':'sravya'}
print(dam)
```

```
{'name': 'sravya', 'branch': 'cse'}
```

In [26]:
```
dam={'name':['aneesha','sravya'],'branch':'cse'}
print(dam['name'][1])
```

```
sravya
```

In [38]:
```
for each in dam:
    print(each,'----->',dam[each][1:])
```

```
name -----> ['sravya']
branch -----> se
```

In [29]:
```
print(dam['branch'][2])
```

```
e
```

In [33]:
```
for each in dam:
    print(each,'----->',dam[each])
```

```
name -----> ['aneesha', 'sravya']
branch -----> cse
```

methods in dictionaries

In [ ]:
```
words={'name':'aneesha','branch':'cse'}
```

In [34]:
```
#dict.clear()
words.clear()
print(words)
```

```
{}
```

In [4]:
```
words={'name':'aneesha','branch':'cse'}
```

In [5]:
```
#copy()
newWords=words.copy()
print(newWords)
```

```
{'name': 'aneesha', 'branch': 'cse'}
```

In [39]:
```
#dict.get(key)
words.get('name')
```

Out[39]:
```
'aneesha'
```

In [41]:
```

print(words.get('mobile'))
```

```
None
```

In [7]:
```
print(newWords.get('mobile'))
print('hi')
```

```
None
hi
```

In [2]:
```
fruits=['orange','apple','mango','apple','mango','apple']
fruit_dict={}
for fruit in fruits:
    fruit_dict[fruit]=fruit_dict.get(fruit,0)+1

print(fruit_dict)
```

```
{'orange': 1, 'apple': 3, 'mango': 2}
```

In [4]:
```
d={}
fruits=['orange','apple','mango','apple','mango','apple']*100
for fruit in fruits:
    d[fruit]=fruits.count(fruit)
d
```

Out[4]: {'orange': 100, 'apple': 300, 'mango': 200}

In [6]:
```
#Len
len(fruit_dict)
```

Out[6]: 3

In [7]:
```
for key in fruit_dict.keys():
    print(fruit_dict[key])
```

```
1
3
2
```

In [9]:
```
for key in fruit_dict.keys():
    print(key,fruit_dict.get(key),sep=":")
```

```
orange:1
apple:3
mango:2
```

In [11]:
```
for value in fruit_dict.values():
    print(value,end=" ")
```

```
1 3 2
```

In [13]:
```
fruit_dict.items()
```

Out[13]: dict_items([('orange', 1), ('apple', 3), ('mango', 2)])

In [18]:
```
for i in fruit_dict.items():
    print(*i,sep=":")



```

```
orange:1
apple:3
mango:2
```

In [19]:
```
for k,v in fruit_dict.items():
    print(k,v,sep=":")
```

```
orange:1
apple:3
mango:2
```

In [20]:
```
fruit_dict.setdefault("Apple",6)
```

Out[20]: 6

In [21]:
```
fruit_dict
```

Out[21]: {'orange': 1, 'apple': 3, 'mango': 2, 'Apple': 6}

In [23]:
```
#100 5 200 300
n=input()
s=0
li=list(map(int,n.split()))
for i in li:
    if len(str(i))==3:
        s+=i
print(s)

```

```
100 5 300 400
800
```

In [ ]:
```
print(sum(list(map(int,list(filter(lambda x:len(x)==3,input().split()))))))
```

In [1]:
```
sum([int(num) for num in input().split() if len(num)==3])
```

```
100 5 300 400
```

Out[1]: 800

In [3]:
```
s=input()
n=int(input())
for i in range(1,n+1):
    print(s,end="")
```

```
hello
2
hellohello
```

In [8]:
```
a=int(input())
if a>=400 and a<=500:
    print("great")
else:
    print("u need to improve")

```

```
399
u need to improve
```

In [9]:
```
a=False
if not a:
    print('hi')
else:
    print('u need 2 improve')
```

```
hi
```

In [17]:
```
#[item loop condition]
numbers=[each for each in range(1,int(input())) if each%2==0 and each%7==0]
print(numbers)
```

```
50
[14, 28, 42]
```

In [ ]:
```
#x^2+y^2=z^2
#(3,4,5)
#(6,8,10)
```

In [20]:
```
numbers=[(x,y,z) for x in range(1,100) for y in range(x,100) for z in range(
print(numbers)
```

```
[(3, 4, 5), (5, 12, 13), (6, 8, 10), (7, 24, 25), (8, 15, 17), (9, 12, 15), (9,
40, 41), (10, 24, 26), (11, 60, 61), (12, 16, 20), (12, 35, 37), (13, 84, 85),
(14, 48, 50), (15, 20, 25), (15, 36, 39), (16, 30, 34), (16, 63, 65), (18, 24,
30), (18, 80, 82), (20, 21, 29), (20, 48, 52), (21, 28, 35), (21, 72, 75), (24,
32, 40), (24, 45, 51), (24, 70, 74), (25, 60, 65), (27, 36, 45), (28, 45, 53),
(30, 40, 50), (30, 72, 78), (32, 60, 68), (33, 44, 55), (33, 56, 65), (35, 84,
91), (36, 48, 60), (36, 77, 85), (39, 52, 65), (39, 80, 89), (40, 42, 58), (40,
75, 85), (42, 56, 70), (45, 60, 75), (48, 55, 73), (48, 64, 80), (51, 68, 85),
(54, 72, 90), (57, 76, 95), (60, 63, 87), (65, 72, 97)]
```

In [13]:
```
student_marks=[('aneesha',[10,30,70]),('sravya',[40,50,60])]
students_dict={}
for student in student_marks:
    name=student[0]
    marks=sum(student[1])
    students_dict[name]=marks
print(students_dict)
```

```
{'aneesha': 110, 'sravya': 150}
```

In [16]:
```
all_marks=students_dict.values()
max_marks=max(all_marks)
for student in students_dict:
    marks=students_dict[student]
    if marks==max_marks:
        print(student,marks)
```

```
sravya 150
```

In [17]:
```
links=['www.google.com','www.gmail.com','www.gmail.com','www.eenadu.net','ww
for web in links:
    if len(web)
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-17-ef45a04eb9cd> in <module>
      1 links=['www.google.com','www.gmail.com','www.gmail.com','www.eenadu.ne
t','www.google.com']
----> 2 links.split()
      3 print(links)

AttributeError: 'list' object has no attribute 'split'
```

In [30]:
```

```

```
2 7 3 4

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-30-d03622a22fea> in <module>
      2 s.sort()
      3 c=0
----> 4 for i in range(0,s+1):
      5     k=i[0]-i[1]
      6 print(k)

TypeError: can only concatenate list (not "int") to list
```

In [ ]:
```

```