In [1]:
```
text=input()
reverse_text=text[::-1]
for char in reverse_text:
    print(char)
```

```
678
8
7
6
```

In [4]:
```
#90 80 100
marks=input()
marks_list=list(map(int,marks.split()))
print(sum(marks_list)//len(marks_list))
```

```
90 80 70
80
```

In [6]:
```
s1="1"
s2='3'
print(int(s1)+int(s2))
print(type(s1))
```

```
4
<class 'str'>
```

Strings in python

In [8]:
```
s="python programming"
print(len(s))
```

```
18
```

In [10]:
```
s[17]
```

Out[10]: 'g'

In [11]:
```
s[-3]
```

Out[11]: 'i'

In [12]:
```
s[-1]
```

Out[12]: 'g'

In [13]:
```
s[::-1]
```

Out[13]: 'gnimmargorp nohtyp'

In [2]:
```
s="python programming"
s[0:1]
```

Out[2]: 'p'

In [17]:
```
s
```

Out[17]: 'python programming'

In [22]:
```
s[0:5]
```

Out[22]: 'pytho'

In [24]:
```
s[7:18]
```

Out[24]: 'programming'

In [25]:
```
s[7:18:2]
```

Out[25]: 'pormig'

In [31]:
```
s[5:0:-1]
```

Out[31]: 'nohty'

In [32]:
```
s[7:]
```

Out[32]: 'programming'

In [33]:
```
s[:]
```

Out[33]: 'python programming'

In [34]:
```
s[::-1]
```

Out[34]: 'gnimmargorp nohtyp'

In [35]:
```

```

Out[35]: 'python programmin'

In [41]:
```
s="python"
print(s.upper())
print(len(s))
```

```
PYTHON
6
```

str.startswith(sub_string)

In [45]:
```
s="anii"
print(s.startswith('a'))

or

main='python'
sub='p'
print(main.startswith(sub))
```

```
True
```

In [50]:
```
main='python'.lower()
sub='P'.lower()

print(main.startswith(sub))
```

```
True
```

In [52]:
```
main='python programming'
print(main.endswith('ing'))
```

```
True
```

In [54]:
```
s="123"
print(s.isdigit())
```

```
False
```

In [58]:
```
s="python programming"
result=s.split()
print(result,type(result))
```

```
['python', 'programming'] <class 'list'>
```

In [59]:
```
s="python programming"
result=s.split()
print(result[1])
```

```
programming
```

In [61]:
```
s =" anee "
result=s.lstrip()
print(len(s),len(result),result)
```

```
6 5 anee
```

In [68]:
```
s=" aneesha "
result=s.lstrip()
p=result.rstrip()
print(p)
```

```
aneesha
```

In [70]:
```
s="PYTHON"
print(s.isupper())
```

```
True
```

In [77]:
```
s="python"
print(s.isalpha())
```

```
True
```

In [79]:
```
s="pythonPROGRAMMING"
print(s.swapcase())
```

```
PYTHONprogramming
```

In [80]:
```
s="python programming"
print(s.title())
```

```
Python Programming
```

In [81]:
```
s="python"
print(s.find('o'))
```

```
4
```

In [85]:
```
s="python"
print(s.find('on'))
```

```
4
```

In [86]:
```
s="python"
print(s.replace('n','oon'))
```

```
pythooon
```

In [5]:
```
s="python programming"
print(s.rfind('m'))
```

```
14
```

In [12]:
```
s="python programming"
c=list(s)
print(c)
```

```
['p', 'y', 't', 'h', 'o', 'n', ' ', 'p', 'r', 'o', 'g', 'r', 'a', 'm', 'm',
'i', 'n', 'g']
```

In [95]:
```
s="python"
print(s.index('o'))
```

```
4
```

In [97]:
```
s=['p','y','t','h','o','n']
print("".join(s))
```

```
python
```

In [98]:
```
s="apssdc"
s[0].upper()+"".join(s[1:])
# or
# s.capitalize()
```

Out[98]:
```
'Apssdc'
```

In [103]:
```
s="Python Programming"
print(s.istitle())
```

```
True
```

In [105]:
```
s="python"
list(s)
```

Out[105]:
```
['p', 'y', 't', 'h', 'o', 'n']
```

In [106]:
```
t=2
n=5
for i in range(1,n+1):
    print(t,"*",i,"=",t*i)
```

```
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
```

In [ ]:
```

```

In [51]:
```

```

```
please enter positive
```

In [91]:
```
1
2
```

```
Prime numbers between 900 and 1000 are:
907
911
919
929
937
941
947
953
967
971
977
983
991
997
```

In [121]:
```
1 li=[1,'abc',45.09]
2 li.append(89)
3 li.insert(2,34)
4 li[1]=23
5 li[3]=12
6 li
```

Out[121]: [1, 23, 34, 12, 89]

In [130]:
```
1 li.remove(12)
2 li
3
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-130-10ce976e8a06> in <module>
----> 1 li.remove(12)
      2 li

ValueError: list.remove(x): x not in list
```

In [134]:
```
1 li,remove(34)
2
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-134-5b7af46d57da> in <module>
----> 1 li,remove(34)

NameError: name 'remove' is not defined
```

In [137]:
```
1 li.clear()
2
```

In [139]:
```
li1=[1,2,3,4]
li1
```

Out[139]: [1, 2, 3, 4]

In [145]:
```
li=[1,2,9,4,5,7]
li.sort()
li
```

Out[145]: [1, 2, 4, 5, 7, 9]

In [148]:
```
li.sort(reverse=True)
li
```

Out[148]: [9, 7, 5, 4, 2, 1]

In [149]:
```
li[::-1]
```

Out[149]: [1, 2, 4, 5, 7, 9]

In [158]:
```
li.reverse()
```

In [160]:
```
cli=li
```

In [166]:
```
cli.append(345)

```

Out[166]: [1, 2, 4, 5, 7, 9, 345, 345, 345, 345, 345]

In [170]:
```
cli.pop()
```

Out[170]: 345

In [173]:
```
cli2=li.copy()
print(cli2,li)
```

[1, 2, 4, 5, 7, 9, 345, 345, 345, 345] [1, 2, 4, 5, 7, 9, 345, 345, 345, 345]

In [174]:
```
li.extend(cli2)
li
```

Out[174]: [1, 2, 4, 5, 7, 9, 345, 345, 345, 345, 1, 2, 4, 5, 7, 9, 345, 345, 345, 345]

In [178]:
```
li1=[1,2,3]
li2=[4,5,6]
li1.append(li2)
li1
```

Out[178]: [1, 2, 3, [4, 5, 6]]

In [180]:
```
li1[3][2]
```

Out[180]: 6

In [ ]:
```
1 li=[1,2,2,3,5,6,5,4]
```

In [183]:
```
1 li.count(5)
```

Out[183]:
```
2
```

In [191]:
```
1 for i in [8,9,10]:
2     li2.insert(1,i)
3 li2
4
```

Out[191]:
```
[4, 10, 9, 8, 10, 9, 8, 10, 9, 8, 5, 6]
```

In [185]:
```
1 li
```

Out[185]:
```
[1,
 2,
 2,
 4,
 5,
 7,
 9,
 345,
 345,
 345,
 345,
 1,
 2,
 4,
 5,
 7,
 9,
 345,
 345,
 345,
 345,
 [1, 2, 4, 5, 7, 9, 345, 345, 345, 345]]
```

In [2]:
```
1 l=[8,9,10]
2 l=l[::-1]
3 for i in l :
4     li2.insert(1,i)
5 li2
6
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-2-671308ee6fcc> in <module>
      2 l=l[::-1]
      3 for i in l :
----> 4     li2.insert(1,i)
      5 li2

NameError: name 'li2' is not defined
```

In [197]:
```
print(sum(l),max(l),min(l))
```

```
27 10 8
```

In [5]:
```


l=list()
l
```

Out[5]:
```
[]
```

In [1]:
```
#3
#4 2 5 6 7
#45 23 76
#23 34 12 45 67
t=int(input())
for i in range(t):
    lis=list(map(int,input().split()))
    print(sum(lis))
    print(sum(lis)//len(lis))


```

```
3
4 2 5 6 7
24
4
45 23 76
144
48
23 34 12 45 67
181
36
```

In [18]:
```
s="123 876"
s.swapcase()

```

Out[18]:
```
'123 876'
```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```

In [141]:
```
1 del li1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-141-fe5f3f59f6db> in <module>
----> 1 del li1

NameError: name 'li1' is not defined
```

In [142]:
```
1 li1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-142-ac6881d35ffe> in <module>
----> 1 li1

NameError: name 'li1' is not defined
```

In [ ]:
```
1
```

In [ ]:
```
1
```

In [109]:
```
1 dir(li)
```

Out[109]:
```
['__add__',
 '__class__',
 '__contains__',
 '__delattr__',
 '__delitem__',
 '__dir__',
 '__doc__',
 '__eq__',
 '__format__',
 '__ge__',
 '__getattribute__',
 '__getitem__',
 '__gt__',
 '__hash__',
 '__iadd__',
 '__imul__',
 '__init__',
 '__init_subclass__',
 '__iter__',
 '__le__',
 '__len__',
 '__lt__',
 '__mul__',
 '__ne__',
 '__new__',
 '__reduce__',
 '__reduce_ex__',
 '__repr__',
 '__reversed__',
 '__rmul__',
 '__setattr__',
 '__setitem__',
 '__sizeof__',
 '__str__',
 '__subclasshook__',
 'append',
 'clear',
 'copy',
 'count',
 'extend',
 'index',
 'insert',
 'pop',
 'remove',
 'reverse',
 'sort']
```

In [204]:
```
n = input("eNTER  STRING\n")
length = int(len(n))
n = str(n)

for i in range(0, int(length/2+1)):
   if n[i] != n[-i - 1]:
      break

if i < int(length/2 + 1):
   print("not")
else:
   print("yes")

```

```
eNTER  STRING
hel
not
```

In [208]:
```
n[-i-1]
```

Out[208]: '1'

In [ ]:
```
s=input()

```