In [3]:
```
s = 'abc'
s=list(s)
" ".join(s)
```

Out[3]:
```
'a b c'
```

In [4]:
```
# Function to toggle string charcters
def toggleString(s):
    # Convert the string into a list of characters
    s = list(s)
    t = []
    for c in s:
        if c.islower():
            t.append(c.upper())
        else:
            t.append(c.lower)
    return "".join(t)
toggleString("Abc")
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-4-02f74ecb7ff5> in <module>
     10             t.append(c.lower)
     11     return "".join(t)
---> 12 toggleString("Abc")
     13

<ipython-input-4-02f74ecb7ff5> in toggleString(s)
      9         else:
     10             t.append(c.lower)
---> 11     return "".join(t)
     12 toggleString("Abc")
     13

TypeError: sequence item 0: expected str instance, builtin_function_or_method f
ound
```

Playing with numbers

line 1 : array size ,no of queries line 2: n Array elemnets next q lines : query - sub array of the original array

5 3 1 2 3 4 5 1 2 0 5

In [1]:
```
line 1
```

```
  File "<ipython-input-1-da94668bd4df>", line 1
    line 1
         ^
SyntaxError: invalid syntax
```

In [4]:
```
def CountOfDigits(s):
    charcount=0
    digitcount=0
    for i in range(0,len(s)):
        if((ord(s[i])>=97 and ord(s[i])<=122) or (ord(s[i])>=65 and ord(s[i])<=90
            charcount= charcount+1
        elif(ord(s[i])>=48 and ord(s[i])<=57):
            digitcount = digitcount+1
    print(digitcount)
    print(charcount)



s=input()
CountOfDigits(s)
```

```
ejdj6
1
4
```

In [10]:
```
def CountOfDigits(s):
    charcount=0
    digitcount=0
    for i in range(0,len(s)):
        if((s[i]>='a' and s[i]<='z') or (s[i]>='A' and s[i]<='Z')):
            charcount= charcount+1
        elif(s[i]>='0' and s[i]<='9'):
            digitcount = digitcount+1
    print(digitcount)
    print(charcount)



s=input()
CountOfDigits(s)
```

```
apssdc@123
3
6
```

In [13]:
```
def CountOfDigits(s):
    charcount=0
    digitcount=0
    for i in range(0,len(s)):
        if(s[i].islower() or s[i].isupper()): #s[i].isalpha()
            charcount= charcount+1
        elif(s[i].isnumeric()):# s[i].isnumeric()
            digitcount = digitcount+1
    print(digitcount)
    print(charcount)



s=input()
CountOfDigits(s)
```

```
hii@#123
3
3
```

In [23]:
```
def factors(n):
    s=0
    for i in range(1,n):
        if(n%i==0):
            s=s+i
    if(n==s):
        return "YES"
    else:
        return "NO"
testcases=int(input())
for i in range(testcases):
    n=int(input())
    print(factors(n))
```

```
2
28
YES
6
YES
```

In [24]:
```
def highrem(n): #5
    r=0
    for i in range(1,n):
        rem=n%i #5%1=0,5%2=1,5%3=2,5%4=1
        if rem>r: #1>0  2>1  1!>2
            r=rem  #r=1  r=2
            j=i   #j=2   j=3
    return j

t=int(input())
for i in range(t):
    n=int(input())
    print(highrem(n))
```

```
2
5
3
4
3
```

In [31]:
```
def prime_number(n1):
    fc=0
    for k in range(2,n1):
        n=k
        c=0
        for i in range(1,n+1):
            if(n%i==0):
                c=c+1
        if(c==2):
                fc=fc+1
    if(fc==2):
        print("YES")
    else:
        print("NO")
prime_number()
```

```
NO
```

In [ ]:
```
def is_prime(n1):
        c=0
        for i in range(1,n+1):
            if(n%i==0):
                c=c+1
        if(c==2):
                return 1
prime_number()
```