

```

In [ ]: 1 # function to calculate time difference as of total number
        2
        3 #s=" 1 44 2 14"
        4
        5 def duration(s):
        6     s = s.split()
        7     sh = int(s[0])
        8     sm = int(s[1])
        9     eh = int(s[2])
       10     em = int(s[3])
       11     startminutes = (sh * 60) + sm
       12     endminutes = (eh * 60) + em
       13     return endminutes - startminutes
       14
       15 def outtimeformat(minutes):
       16     # convert the time minutes into HH MM
       17     hh = minutes // 60
       18     mm = minutes % 60
       19     print(hh,mm)
       20     return
       21
       22 n = int(input())
       23 for i in range(0,n):
       24     s = input()
       25     minutes = duration(s)
       26     outtimeformat(minutes)
       27
       2
       1 44 2 14
       0 30

```

```

In [3]: 1 # counting the char and digit
        2
        3 def countofdigit(s):
        4     charcount = 0
        5     digitcount = 0
        6     for i in range(0,len(s)):
        7         if((s[i]>='a' and s[i] <='z') or (s[i]>='A' and s[i]<='Z')):
        8             charcount = charcount+1
        9         elif(s[i]>='0' and s[i]<='9'):
       10             digitcount = digitcount+1
       11     print(digitcount)
       12     print(charcount)
       13
       14 s=input()
       15 countofdigit(s)
       16
       raj@9347
       4
       3

```

```
In [1]: 1 def factors(n):
2         s=0
3         for i in range(1,n):
4             if(n%i==0):
5                 s=s+i
6         if(n==s):
7             return "YES"
8         else:
9             return "NO"
10 testcases=int(input())
11 for i in range(testcases):
12     n=int(input())
13     print(factors(n))
```

```
2
6
YES
3
NO
```

```
In [3]: 1 # divisible by 3
2 def divisible(n):
3     for i in range(1, n+1):
4         if(i%3 >1):
5             print(i,end=" ")
6     divisible(45)
```

```
2 5 8 11 14 17 20 23 26 29 32 35 38 41 44
```

```
In [7]: 1 # prime number
2 def prime(n):
3     c=0
4     for i in range(1,n+1):
5         if(n%i==0):
6             c=c+1
7     if(c==2):
8         print(n)
9     prime(7)
```

```
7
```

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In [ ]: 1
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