An e-commerce company plans to give their customers a special discount for Christmas.

They are planning to offer a flat discount. The discount value is calculated as the sum of all

the prime digits in the total bill amount.

Write an algorithm to find the discount value for the given total bill amount.

Constraints

1 <= orderValue< 10e100000

Input

The input consists of an integer orderValue, representing the total bill amount.

Output

Print an integer representing the discount value for the given total bill amount.

Example Input

578

Output

12

For example:

Test	Result
print(christmasDiscount(578))	12

Answer: (penalty regime: 0 %)

Reset answer

```python
def christmasDiscount(n):
    b=[]
    a=[]
    temp=n
    while n!=0:
        rem=n%10
        a.append(rem)
        n=n//10
    for i in a:
        for j in range(2,temp//2):
            if i%j==0:
                break
            else:
                b.append(i)
                break
    return sum(b)
```

	Test	Expected	Got	
✓	print(christmasDiscount(578))	12	12	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

A number is considered to be ugly if its only prime factors are 2, 3 or 5.

[1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, …] is the sequence of ugly numbers.

Task:

complete the function which takes a number n as input and checks if it's an ugly number.

return ugly if it is ugly, else return not ugly

Hint:

An ugly number U can be expressed as: $U = 2^a * 3^b * 5^c$, where a, b and c are nonnegative integers.

For example:

Test	Result
print(checkUgly(6))	ugly
print(checkUgly(21))	not ugly

Answer: (penalty regime: 0 %)

Reset answer

```python
def checkUgly(n):
    while n % 2 == 0:
        n //= 2
    while n % 3 == 0:
        n //= 3
    while n % 5 == 0:
        n //= 5
    if n==1:
        return"ugly"
    else:
        return "not ugly"
```

	Test	Expected	Got	
✓	print(checkUgly(6))	ugly	ugly	✓
✓	print(checkUgly(21))	not ugly	not ugly	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Given a number with maximum of 100 digits as input, find the difference between the sum

of odd and even position digits.

Input Format:

Take a number in the form of String from stdin.

Output Format:

Print the difference between sum of even and odd digits

Example input:

1453

Output:

1

Explanation:

Here, sum of even digits is 4 + 3 = 7

sum of odd digits is 1 + 5 = 6.

Difference is 1.

Note that we are always taking absolute difference

Answer: (penalty regime: 0 %)

Reset answer

```python
1  def differenceSum(n):
2      n=str(n)
3      a=[]
4      for i in n:
5          a.append(int(i))
6      e=[]
7      o=[]
8      for j in range(1,len(a)+1):
9          if j%2==0:
10             e.append(a[j-1])
11         else:
12             o.append(a[j-1])
13     s1=sum(e)
14     s2=sum(o)
15     return s1-s2
16
```

	Test	Expected	Got	
✓	print(differenceSum(1453))	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Write a code to check whether product of digits at even places is divisible by sum of digits

at odd place of a positive integer.

Input Format:

Take an input integer from stdin.

Output Format:

Print TRUE or FALSE.

Example Input:

1256

Output:

TRUE

Example Input:

1595

Output:

FALSE

For example:

Test	Result
print(productDigits(1256))	True
print(productDigits(1595))	False

Answer: (penalty regime: 0 %)

Reset answer

```python
def productDigits(n):
    n=str(n)
    a=[]
    for i in n:
        a.append(int(i))
    o=[]
    e=[]
    for j in range(1,len(a)+1):
        if j%2==0:
            e.append(a[j-1])
        else:
            o.append(a[j-1])
    res=1
    for x in e:
        res=res*x
    s=sum(o)
    return res%s==0
```

	Test	Expected	Got	
✓	print(productDigits(1256))	True	True	✓
✓	print(productDigits(1595))	False	False	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

An abundant number is a number for which the sum of its proper divisors is greater than the number itself. Proper divisors of the number are those that are strictly lesser than the number.

Input Format:

Take input an integer from stdin

Output Format:

Return Yes if given number is Abundant. Otherwise, print No

Example input:

12

Output:

Yes

Explanation

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:

13

Output:

No

Explanation

The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.

For example:

Test	Result
print(abundant(12))	Yes
print(abundant(13))	No

Answer: (penalty regime: 0 %)

Reset answer

```python
def abundant(n):
    b=[]
    for i in range(1,n):
        if n%i==0:
            b.append(i)
    c=sum(b)
    if c>n:
        return"Yes"
    else:
        return"No"
```

	Test	Expected	Got	
✓	`print(abundant(12))`	Yes	Yes	✓
✓	`print(abundant(13))`	No	No	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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