

An automorphic number is a number whose square ends with the number itself.
For example, 5 is an automorphic number because $5 \times 5 = 25$. The last digit is 5 which same as the given number.
If the number is not valid, it should display "Invalid input".
If it is an automorphic number display "Automorphic" else display "Not Automorphic".
Input Format:
Take a Integer from stdin Output Format: Print Automorphic if given number is Automorphic
Automorphic:

Test	Result
<code>print(automorphic(5))</code>	Automorphic

Reset answer

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REC-PS SAMYUKTHAA A 2022-BIOMED-B S2

Question 2

Correct

Mark: 1.00 out of 1.00

🚩 flag question

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

Explanations:

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

```
1 def differenceSum(n):
2     num = str(n)
3     even = sum(int(num[i]) for i in range(1, len(str(n)), 2))
4     odd = sum(int(num[i]) for i in range(0, len(str(n)), 2))
5     return abs(even - odd)
6
7 differenceSum(1453)
8
```

Test	Expected	Got
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Output:

FALSE

For example:

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1. def print
```

19
20

Passed all tests! ✓

Correct

Starts for this submission: 1.00/1.00

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

```
1 def christmasDiscount(n):  
2     prime_digits = (2, 3, 5, 7, 11)  
3     discount = 0  
4     while n > 0:  
5         digit = n % 10  
6         if digit in prime_digits:  
7             discount += digit  
8             n //= 10  
9     return discount  
10  
11 n = 578  
12
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

GitHub Dashboard

Week9_Coding: Attempt review

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Mark: 1.00 out of 1.00
Flag question

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

```
1. def checkugly(n):
2.     if n==0:
3.         return "not ugly"
4.     for prime in [2, 3, 5]:
5.         while n % prime == 0:
6.             n //= prime
7.     return "ugly" if n==1 else "not ugly"
8.
9.
```

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

Passed all tests! ✓

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