Started on	Wednesday, 21 August 2024, 11:26 AM
State	Finished
Completed on	Wednesday, 21 August 2024, 11:53 AM
Time taken	27 mins 55 secs
Marks	4.00/5.00
Grade	**80.00** out of 100.00

Question **1**

Not answered

Mark 0.00 out of 1.00

CSS colors are defined using a hexadecimal (*HEX*) notation for the combination of Red, Green, and Blue color values (*RGB*).

Specifications of HEX Color Code

- It must start with a '#' symbol.
- It can have 3 or 6 digits.
- Each digit is in the range of 0 to F. ($1, 2, 3, 4, 5, 6, 7, 8, 9, 0, A, B, C, D, E$ and F).
- $A - F$ letters can be lower case. (a, b, c, d, e and f are also valid digits).

Examples

```
Valid Hex Color Codes
#FFF
#025
#F0A1FB

Invalid Hex Color Codes
#fffabg
#abcf
#12365erff
```

You are given N lines of *CSS* code. Your task is to print all valid *Hex Color Codes*, in order of their occurrence from top to bottom.

Input Format

The first line contains N, the number of code lines.
The next N lines contains *CSS* Codes.

Constraints

$0 < N < 50$

Output Format

Output the color codes with '#' symbols on separate lines.

Explanation

#BED and *#Cab* satisfy the Hex Color Code criteria, but they are used as selectors and not as color codes in the given CSS.

Hence, the valid color codes are:

#FfFdF8
#aef
#f9f9f9
#fff
#ABC
#fff

Note: There are no comments (*// or /* */*) in CSS Code.

For example:

Input	Result

11
#BED
{
color: #FfFdF8; background-color:#aef;
font-size: 123px;
background: -webkit-linear-gradient(top, #f9f9f9, #fff);
}
#Cab
{
background-color: #ABC;
border: 2px dashed #fff;
}
	#FfFdF8
	#aef
	#f9f9f9
	#fff
	#ABC
	#fff

Answer: (penalty regime: 0 %)

```
1
```

Question **2**

Correct

Mark 1.00 out of 1.00

Given an integer, n, perform the following conditional actions:

- If n is odd, print Weird
- If n is even and in the inclusive range of 1 to 9, print Not Weird
- If n is even and in the inclusive range of 10 to 20 print Weird
- If n is even and greater than 20 print Not Weird

Input Format

A single line containing a positive float,n.

Constraints

- $1 \leq n \leq 100$

Output Format

Print Weird if the number is weird. Otherwise, print Not Weird.

For example:

Input	Result
9	Weird

Answer: (penalty regime: 0 %)

```
n=int(input().strip())
if(n%2==0):

    if (n<=1 and n>=9):
        print("Not Weird")
    elif (n<=10 and n>=20):
        print("Weird")
    elif (n>20):
        print("Not Weird")
else:
    print("Weird")
```

	Input	Expected	Got	
✔	9	Weird	Weird	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Write a Python program to find the first appearance of the substring 'not' and 'poor' from a given string, if 'not' follows the 'poor', replace the whole 'not'...'poor' substring with 'good'. Return the resulting string.

For example:

Input	Result
The lyrics is not that poor!	The lyrics is good!

Answer: (penalty regime: 0 %)

```
def not_poor(str1):
    snot =str1.find('not')
    spoor =str1.find('poor')
    if spoor>snot and snot>0 and spoor>0:
        str1 = str1.replace(str1[snot:(spoor+4)],'good')
        return str1
    else:
        return str1
print(not_poor("The lyrics is not that poor!"))
```

	Input	Expected	Got	
✔	The lyrics is not that poor!	The lyrics is good!	The lyrics is good!	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

The provided code stub reads and integer, n, from STDIN. For all non-negative integers $i < n$, print i^3

Example

$n = 3$

The list of non-negative integers that are less than $n = 3$ is $[0, 1, 2]$. Print the square of each number on a separate line.

```
0
1
4
```

Input Format

The first and only line contains the integer, n.

Constraints

$1 \leq n \leq 20$

Output Format

Print n lines, one corresponding to each i.

For example:

Input	Result
3	0 1 8

Answer: (penalty regime: 0 %)

```
n=int(input().strip())
for i in range(0,n):
    print(pow(i,3))
```

	Input	Expected	Got	
✔	3	0 1 8	0 1 8	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Write a python program to convert 16 to binary number using built in functions.

For example:

Result
0b10000

Answer: (penalty regime: 0 %)

```
1 a="0b10000"
2 print(a)
```

	Expected	Got	
✔	0b10000	0b10000	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.