Week 3 – 1

ROLL NO.:240801167

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
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Duration	60 days 8 hours

Q1) Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false.

Example: If 698 and 768 are given, program should print true as they both end with 8.

Sample Input 1

25 53

Sample Output 1

false

Sample Input 2

27 77

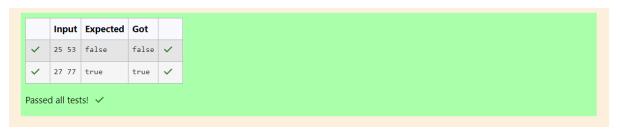
Sample Output 2

true

Code:

```
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
   3 int a,b;
      int main()
   6 ₹ {
          scanf("%d %d",&a,&b);
   8
          a=a%10;
   9
          b=b%10;
  10
          // printf("%d %d",a,b);
  11
          if(a==b)
  12 •
              printf("true");
  13
          }
  14
  15
          else
  16 •
          {
  17
              printf("false");
  18
  19
          return 0;
  20 }
```

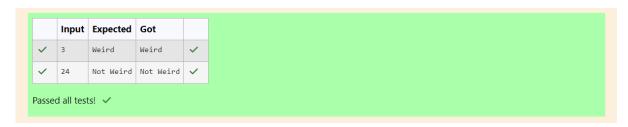
OUTPUT:



Q2) In this challenge, we're getting started with conditional statements.
Task
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 2 to 5, print Not Weird
• If n is even and in the inclusive range of 6 to 20, print Weird
• If n is even and greater than 20, print Not Weird
Complete the stub code provided in your editor to print whether or not n is weird.
Input Format
A single line containing a positive integer, n.
Constraints
• 1 < n < 100
Output Format
Print Weird if the number is weird; otherwise, print Not Weird.
Sample Input 0
3
Sample Output 0
Weird
Code:

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2
   3
      int a,b;
   4
   5
      int main()
   6 ₹ {
           scanf("%d",&a);
   7
   8
          b=a/2;
          b=b%10;
   9
  10
          if((b==1)||(b==3)||(b==5)||(b==7)||(b==9))
  11 ,
  12
              printf("Weird");
  13
          } else if((a>=2)&&(a<=5))
  14 ,
              printf("Not Weird");
  15
           } else if((a>=6)&&(a<=20))
  16
  17 ,
  18
              printf("Weird");
           } else if(a>20)
  19
  20 ,
           {
              printf("Not Weird");
  21
  22
  23
           return 0;
  24 }
```

OUTPUT:



Q3) Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.

For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

Sample Input 1

3

5

4

Sample Output 1

Yes

Code:

```
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
       int a,b,c,r,hyp;
       int main()
          scanf("%d %d %d",&a,&b,&c);
          if((a>b)&&(a>c))
  10 +
  12
               hyp= a*a;
  13
          else if((b>a)&&(b>c))
  15 +
               r=a*a+c*c;
  16
               hyp = b*b;
  18
           else if((c>a)&&(c>b))
  19
  20 +
  21
               r=a*a+b*b;
  22
23
               hyp = c*c;
  24
           if(r==hyp)
  25 1
              printf("yes");
  26
  27
  28
29 •
           else
               printf("no");
  30
   31
           return 0;
  32
  33 }
```

OUTPUT:

	Input	Expected	Got	
~	3 5 4	yes	yes	~
~	5 8 2	no	no	~
Passed all tests! 🗸				