Week 3 – 1:

--decision making and branching

ROLL NO.:240801183

Name: LUTHIRAN B

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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

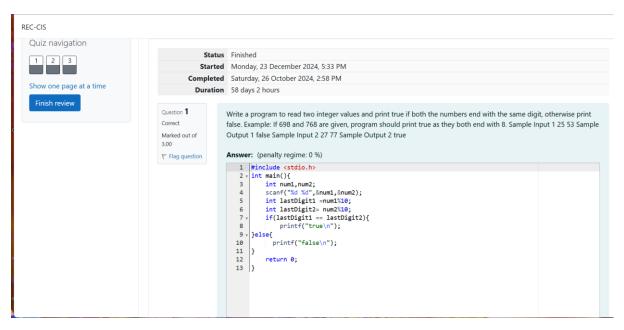
Sample Input 2

27 77

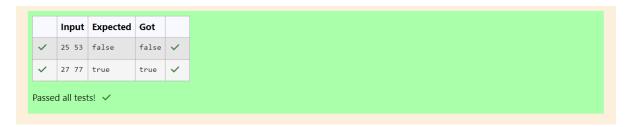
Sample Output 2

true

Code:



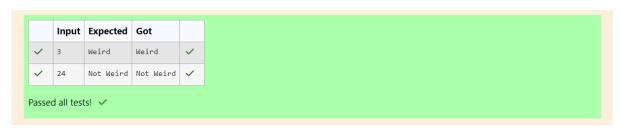
OUTPUT:



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:

```
#include <stdio.h>
 2 v int main(){
        int a;
scanf("%d",&a);
 3
 4
        if (a%2 == 0){
  if (a>=2 && a<=5){
 5 🔻
 6 •
                 printf("Not Weird");
 7
 8
 9 🔻
             else if (a>=6 && a<=20){
10
                printf("Weird");
11
             else if (a>20){
12 🔻
13
                printf("Not Weird");
14
15
         else if (a%2!= 0){
16 🔻
            printf("Weird");
17
18
19 🔻
            printf("Not Weird");
20
21
22
        return 0;
23 }
```

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 $3*3 + 4*4 = 25 = 5*5$
You 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:

```
1 #include <stdio.h>
  2 v int main(){
 3
       int a,b,c;
        //int ab = a*a+b*b;
        scanf("%d %d %d",&a,&b,&c);
 5
  6
       // int ab = a*a+(b*b);
        if (a>=b && a>=c){
 7 🔻
            int ab = b*b + (c*c);
  8
 9 ,
            if (ab == a*a){
 10
                printf("yes");
 11
 12 •
            else{
            printf("no");
 13
 14
 15
         else if(b>=a && b>=c){
 16 •
            int ab = a*a+(c*c);
 17
            if (ab == b*b){
 18 🔻
 19
                printf("yes");
 20
 21 🔻
            else{
 22
            printf("no");
 23
 24
 25 🔻
         else if(c>=a && c>=b){
 26
            int ab = a*a+(b*b);
            if (ab == c*c){
 27 🔻
 28
                printf("yes");
 29
 30 🔻
            else{
 31
            printf("no");
 32
 33
            // printf("yes");
 34
 35 ₹
         else{
         printf("no");
 36
 37
 38
         return 0;
 39
 40 }
```

OUTPUT:

