

True



Problem Statement 2:

Passed all tests! <

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

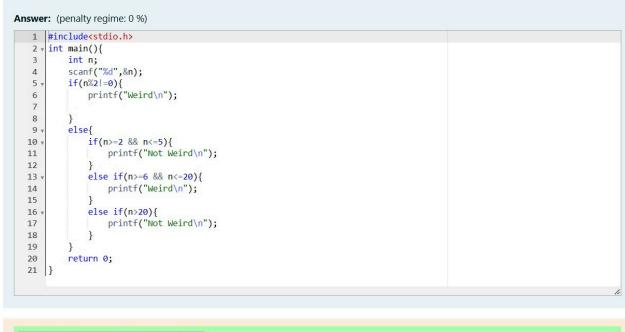
Print Weird if the number is weird; otherwise, print Not Weird.

Sample Input 0

3

Sample Output 0

Weird



Weird 🗸
Not Weird 🗸
Not We

Problem Statement 3:

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

```
Answer: (penalty regime: 0 %)
     1 #include<stdio.h>
             int main(){
                  imain(){
  int a,b,c;
  scanf("%d %d %d",&a,&b,&c);
  int largest =a>b?(a>c?a:c):(b>c?b:c);
  int sum_square=a*a+b*b+c*c-largest*largest;
  if(sum_square==largest*largest){
    printf("yes\n");
}
      4
      5
      7
      8
      9
                   printf("no\n");
}
     10
    11
    12
                   return 0;
     13
    14 }
```

yes	yes	~
no	no	~

Problem Statement 4:

Write a program that determines the name of a shape from its number of sides. Read the number of sides from the user and then report the appropriate name as part of a meaningful message. Your program should support shapes with anywhere from 3 up to (and including) 10 sides. If a number of sides outside of this range is entered then your program should display an appropriate error message.

Sample Input 1

3

Sample Output 1

Triangle

Sample Input 2

7

Sample Output 2

Heptagon

Sample Input 3

11

Sample Output 3

The number of sides is not supported.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
 2 v int main(){
        int side;
 3
        scanf("%d",&side);
 4
 5 ,
        if(side>=3 && side<=10){
            switch (side){
 6 ,
 7
                case 3:
 8
                 printf("Triangle\n");
 9
                 break;
10
                case 4:
11
                printf("Quadrilateral\n");
12
                break;
13
14
                case 5:
                printf("Pentagon\n");
15
16
                break;
17
                case 6:
                printf("Hexagon\n");
18
19
                break;
20
                case 7:
                printf("Heptagon\n");
21
22
                break;
23
                case 8:
24
                printf("Octogon");
25
                break;
26
                case 9:
                printf("Nonagon");
27
                break;
28
                case 10:
29
                printf("Decagon");
30
31
                break;
32
33
```

```
32
 33
 34 *
         else{
 35
                 printf("The number of sides is not supported.\n");
 36
         return 0;
 37
 38 }
     Input Expected
                                                  Got
            Triangle
                                                  Triangle
            Heptagon
                                                  Heptagon
            The number of sides is not supported.
                                                  The number of sides is not supported.
Passed all tests! <
```

Problem Statement 5:

The Chinese zodiac assigns animals to years in a 12-year cycle. One 12-year cycle is shown in the table below. The pattern repeats from there, with 2012 being another year of the Dragon, and 1999 being another year of the Hare.

Year Animal

2000 Dragon

2001 Snake

2002 Horse

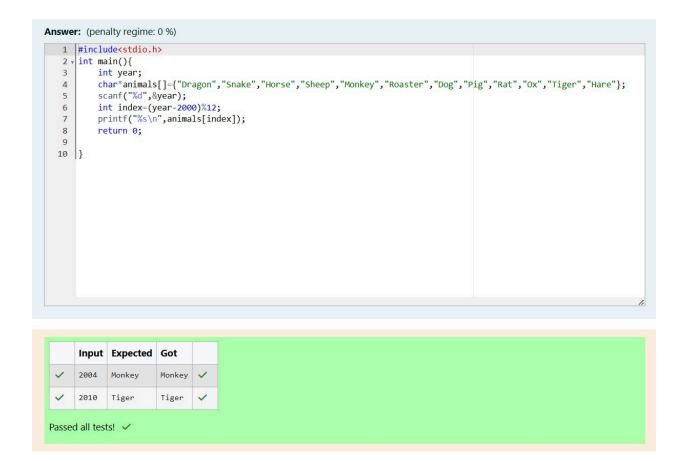
2003 Sheep

2004 Monkey

2005 Rooster 2006 Dog 2007 Pig 2008 Rat 2009 Ox 2010 Tiger 2011 Hare Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table. Sample Input 1 2004 Sample Output 1 Monkey Sample Input 2 2010

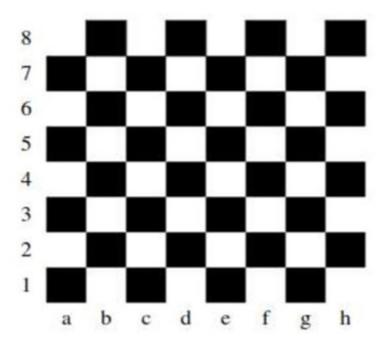
Sample Output 2

Tiger



Problem Statement 6:

Positions on a chess board are identified by a letter and a number. The letter identifies the column, while the number identifies the row, as shown below:



Write a program that reads a position from the user. Use an if statement to determine if the column begins with a black square or a white square. Then use modular arithmetic to report the color of the square in that row. For example, if the user enters a1 then your program should report that the square is black. If the user enters d5 then your program should report that the square is white. Your program may assume that a valid position will always be entered. It does not need to perform any error checking.

Sample Input 1 a1

Sample Output 1

The square is black.

Sample Input 2

d5

Sample Output 2

The square is white.

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
      #include<ctype.h>
   3 v int main(){
           char column, row;
           scanf("%c %c",&column,&row);
           column=tolower(column);
           int intial_color=(column=='a'||column=='h')?1:0;
           int square_color=(intial_color+(row-'1'))%2;
if(square_color==1){
   8
   9
              printf("The square is black.\n");
  10
  11
  12
               printf("The square is white.\n");
  13
  14
           return 0;
  15
  16
  17
```



Problem Statement 7:

Some data sets specify dates using the year and day of year rather than the year, month, and day of month. The day of year (DOY) is the sequential day number starting with day 1 on January 1st. There are two calendars - one for normal years with 365 days, and one for leap years with 366 days. Leap years are divisible by 4. Centuries, like 1900, are not leap years unless they are divisible by 400. So, 2000 was a leap year. To find the day of year number for a standard date, scan down the Jan column to find the day of month, then scan across to the appropriate month column and read the day of year number. Reverse the process to find the standard date for a given day of year. Write a program to print the Day of Year of a given date, month and year.

Sample Input 1

Sample Output 1

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2 v int main(){
           int date, month, year;
          int days[]={31,28,31,30,31,30,31,30,31,30,31};
          scanf("%d %d %d",&date,&month,&year);
   5
          if((year%4==0&&year%100!=0)||(year%400==0)){
              days[1]=29;
   8
           int DOT=date;
   9
  10
           for(int i=0;i<(month-1);i++){</pre>
  11
              DOT += days[i];
  12
          printf("%d\n",DOT);
  13
  14
           return 0;
  15 }
```

/ 18	170	170	~
6			
2020			

Problem Statement 8:

Suppandi is trying to take part in the local village math quiz. In the first round, he is asked about shapes and areas. Suppandi, is confused, he was never any good at math. And also, he is bad at remembering the names of shapes. Instead, you will be helping him calculate the area of shapes.

- When he says rectangle, he is actually referring to a square.
- When he says square, he is actually referring to a triangle.

• When he says triangle, he is referring to a rectangle

• And when he is confused, he just says something random. At this point, all

you can do is say 0.

Help Suppandi by printing the correct answer in an integer.

Input Format

• Name of shape (always in upper case R --> Rectangle, S --> Square, T -->

Triangle)

• Length of 1 side

• Length of other side

Note: In case of triangle, you can consider the sides as height and length of

base

Output Format

• Print the area of the shape.

Sample Input 1

T 10 20

Sample Output 1

200

```
Answer: (penalty regime: 0 %)
       #include<stdio.h>
       int main(){
            char shape;
           int side1,side2;
scanf("%c %d %d",&shape,&side1,&side2);
    4
            int area;
            switch(shape){
    7
                case'R':
    8
                area=side1*side2;
    9
               break;
case 'S':
   10
   11
                area=(side1*side2)/2;
   12
                break;
case 'T':
   13
   14
   15
                area=side1*side2;
                break;
default:
   16
   17
   18
                area=0;
   19
            printf("%d\n",area);
   20
   21
            return 0;
   22 }
```

Input	Expected	Got	
T 10 20	200	200	~
S 30 40	600	600	~
B 2 11	0	0	~
R 10 30	300	300	~
✓ S 40 50	1000	1000	~

Problem Statement 9:

Superman is planning a journey to his home planet. It is very important for him to know which day he arrives there. They don't follow the 7-day week like us. Instead, they follow a 10-day week with the following days:

Day Number Name of Day

- 1 Sunday
- 2 Monday
- 3 Tuesday
- 4 Wednesday
- **5 Thursday**
- 6 Friday
- 7 Saturday
- 8 Kryptonday
- 9 Coluday
- 10 Daxamday

Here are the rules of the calendar:

•	The	calendar	starts	with	Sunday	always.
---	-----	----------	--------	------	--------	---------

 It has only 296 days 	. After the 296th day	, it goes back to Sunday.
--	-----------------------	---------------------------

You begin your journey on a Sunday and will reach after n. You have to tell on which day you will arrive when you reach there.

Input format:

• Contain a number n (0 < n)

Output format:

Print the name of the day you are arriving on

Sample Input

7

Sample Output

Kryptonday

Sample Input

1

Sample Output

Monday

