ROLL NO: 240701014 Finished Status Started Monday, 23 December 2024, 5:33 PM Saturday, 9 November 2024, 11:05 PM Completed Duration 43 days 18 hours Question 1 Correct Write a program that determines the name of a shape from Marked out of its number of sides. Read the number of sides from the user 3.00 and then report the appropriate name as part of a Flag question 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 %) #include<stdio.h> int main() 3 ₹ { int n; scanf("%d",&n); if(n==3)6 7 🔻 printf("Triangle"); 9 else if(n==4) 10 11 v { 12 printf("Rectangle"); 13 else if(n==5) 14 15 ▼ 16 printf("Pentagon"); 17 18 else if(n==6) 19 🔻 printf("Hexagon"); 20 21 else if(n==7) 22 23 * { 24 printf("Heptagon"); 25 else if(n==8) 26 27 ▼ printf("Octagon"); 28 29 else if(n==9) 30 31 * printf("Nonagon"); 32 33 34 else if(n==10) 35 * { printf("Decagon"); 36 37 } 38 else { 39 * printf("The number of sides is not suppor 40 41 return 0; 42 43 } Input **Expected** 3 Triangle Heptagon 7 11 The number of sides is not supported. Passed all tests! < Question 2 The Chinese zodiac assigns animals to years in a 12-year Correct cycle. One 12-year cycle is shown in the table below. The Marked out of pattern repeats from there, with 2012 being another year of 5.00 the Dragon, and 1999 being another year of the Hare. Flag question 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 2 2010 Sample Output 2 **Tiger Answer:** (penalty regime: 0 %) #include<stdio.h> int main() 3 v 4 int n; scanf("%d",&n); 5 if(n%12==8)6 7 * printf("Dragon"); 8 9 else if(n%12==9) 10 11 v printf("Snake"); 12 13 14 else if(n%12 = 10) 15 v { 16 printf("Horse"); 17 else if(n%12==11) 18 19 * { 20 printf("Sheep"); 21 22 else if(n%12==0) 23 • 24 printf("Monkey"); 25 26 else if(n%12==1) 27 28 v { printf("Rooster"); 29 30 31 else if(n%12==2) 32 v printf("Dog"); 33 34 35 else if(n%12==3) 36 ▼ printf("Pig"); 37 38 39 else if(n%12==4) 40 * 41 printf("Rat"); 42 else if(n%12==5) 43 44 w printf("0x"); 45 46 47 else if(n%12==6) 48 * 49 printf("Tiger"); 50 51 else 52 ₹ Expected Input Got Monkey Monkey 2004 Tiger 2010 Tiger Passed all tests! < Question **3** Positions on a chess board are identified by a letter and a Correct number. The letter identifies the column, while the number Marked out of identifies the row, as shown below: 7.00 Flag question 6 4 3 2 d e 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 a 1 Sample Output 2 The square is white.

Answer: (penalty regime: 0 %)

int main()

{

else

return 0;

Input Expected

a 1

d 5

The square is black.

3 ₩

4

5

6

7

9

10

11

12 *

13

14

15

16

}

8 *

{

#include<stdio.h>

char x;

scanf("%c %d",&x,&b);

if((x%2==0&&b%2==0) | | (x%2!=0&&b%2!=0)

printf("The square is black.");

printf("The square is white.");

Got

The square is white. The square is wh

The square is bl

int b;