Status Finished

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Question 1 Correct Marked out of 3.00

Flag question

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

```
Answer: (penalty regime: 0 %)
```

```
1 #include<stdio.h>
2 - int main(){
3 int a;
  scanf("%d",&a);
4
5 - switch(a){
6
   case 3:
   printf("Triangle");
7
8
    break;
9
    case 4:
10
    printf("Rectangle");
   break;
11
12
   case 5:
13
    printf("Pentagon");
14
    break;
15
   case 6:
16 printf("Hexagon");
    break;
17
18
    case 7:
19
    printf("Heptagon");
 20 break;
    case 8:
 21
    printf("Octagon");
 22
 23
    break;
    case 9:
 24
     printf("Nonagon");
 25
    break;
 26
    case 10:
 27
 28 printf("Decagon");
29 break;
 30
     default:
     printf("The number of sides is not supported.");
 31
 32
     break;
 33
     return 0;
  34
  25
```

	Input	Expected	Got	
~	3	Triangle	Triengle	~
~	7	Heptagon	Heptagon	~
~	11	The number of sides is not supported.	The number of sides is not supported.	1

Question 2
Correct
Marked out of 5.00
F Flag question

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	Ох
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

```
Answer: (penalty regime: 0 %)
```

```
1 #include<stdio.h>
int main()(
int year;
scanf("%d", 8year);
5 · switch (year%12) {
6 case 0:
7 printf("Monkey");
8 break;
 9 case 1:
printf("Rooster");
preak;
12 case 2:
printf("Dog");
preak;
15
     case 3:
16 printf("Pig");
17 break;
18
     case 4:
19 printf("Rat");
20
     break;
21
     case 5:
    printf("0x");
break;
22
23
25 printf("Tiger");
26 break;
27 case 7:
 28 printf("Hare");
29 break;
 30
     case 8:
 31 printf("Dragon");
32 break;
     case 9:
 33
34 printf("Snake");
35 break:
```

```
printf("Snake");
break;
case 10:
printf("Horse");
break;
dase 11:
dp printf("Sheep");
break;
42 }
return 0;
}
```

Inp	ut Exq	pected	Got	
✓ 200	4 Mor	nkey	Monkey	~
J 201	e Tip	ger	Tiger	~

Question 3
Correct
Marked out of 7.00
P Flag question

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

a 1

Sample Output 1

The square is black.

```
#include<stdio.h>
1
2 • int main(){
3      char column;
          int row;
scanf("%c %d",&column,&row);
int columnindex=(column-'a')+1;
if((columnindex+row)%2==0)
 4
 5
 6
 7
 8
          printf("The square is black.");
          else
          printf("The square is white.");
10
11
          return 0;
12 }
```

	Input	Expected	Got	
~	a 1	The square is black.	The square is black.	~
~	d 5	The square is white.	The square is white.	~

Passed all tests! 🗸