Roll No.: 241701006

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## WEEK 03-02



```
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 Output 2

Heptagon

Sample Input 3

11

Sample Output 3

Activate Windows
The number of sides is not supported.
```

riangle	Triangle	~
eptagon	Heptagon	~
ne number of sides is not supported.	The number of sides is not supported.	~
ne		number of sides is not supported. The number of sides is not supported.

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 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 ti

Sample Input 1

2004

Sample Output 1

Monkey

Activate Windows
Go to Settings to activate Window

```
Sample Input 2
2010
Sample Output 2
Tiger
Answer: (penalty regime: 0 %)
                             int a;
scanf("%d",&a);
int offset =(a-2000)%12;
if(offset<0)</pre>
                                        offset+=12;
                               }
switch(offset)
                                       case 0:
    printf("Dragon");
    break;
    case 1:
    printf("Snake");
    break;
    case 2:
    printf("Horse");
    break;
    case 3:
    printf("Sheep");
    break;
    case 4:
    printf("Monkey");
    break;
    case 5:
    printf("Rooster");
    break;
    case 6:
    printf("Dog");
                                                                                                                                                                                                                                                                                                                                     Activate Windows
                                                                                                                                                                                                                                                                                                                                     Go to Settings to activate Window
                                     break;
case 7:
printf("Pig");
break;
case 8:
printf("Rat");
break;
case 9:
printf("Ox");
break;
case 10:
printf("Tiger");
break;
case 11:
printf("Hare");
break;
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}
                              return 0;
```

	Input	Expected	Got	
<b>~</b>	2004	Monkey	Monkey	~
<b>~</b>	2010	Tiger	Tiger	~
sse	d all tes			

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.

Sample Input 2

d 5

Sample Output 2

Activate Windows
Go to Settings to activate Window

The square is white.

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

		Input	Expected	Got	
	<b>~</b>	a 1	The square is black.	The square is black.	~
ľ	<b>~</b>	d 5	The square is white.	The square is white.	~

Passed all tests! 🗸

Activate Windows