Correct
Marked out of 3.00

P. Rag question

Sample Input 1

Triangle:

Sample Output 2

Heptagori

Sample Output 2

Heptagori

Sample Input 3

Sample Output 3

The number of sides is not supported.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
2
    int. main()
3 + {
4
        int side;
5
    scanf("%d", &side);
7 * switch(side){
8
         case 3:
        printf("Triangle");
9
         break;
10
         case 4:
11
         printf("Quadrilateral");
12
         break;
13
14
         case 5:
         printf("Pentagon");
15
         break;
16
         case 6:
17
         printf("Hexagon");
18
19
         break;
20
         case 7:
         printf("Heptagon");
21
22
         break;
23
         case 8:
         printf("Octagon");
24
```

```
DI CON,
17
        case 6:
        printf("Hexagon");
18
19
        break;
20
        case 7:
21
        printf("Heptagon");
22
        break;
23
        case 8:
24
        printf("Octagon");
25
        break;
26
        case 9:
27
        printf("Nonagon");
28
        break;
29
        default:
        printf("The number of sides is not supported.");
30
31
32 return 0;
33 }
```

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

Passed all tests! <

Question **2**Correct
Marked out of 5.00

P 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

```
case v:
             printf("Dragon");
10
             break;
11
             case 2:
12
             printf("Snake");
13
14
             break;
             case 3:
15
             printf("Horse");
16
17
             break;
             case 4:
18
             printf("Monkey");
19
             break;
20
             case 5:
21
             printf("Roaster");
22
             break;
23
24
             case 6:
             printf("Dog");
25
26
             break;
             case 7:
27
             printf("Pig");
28
              break;
29
30
              case 8:
             printf("Rat");
31
              break;
32
33
              case 9:
              printf("ox");
 34
              break;
 35
              case 10:
 36
              printf("Tiger");
 37
              break;
 38
              case 11:
 39
              printf("Hare");
40
              break;
41
 42
 43
         return 0;
 44
```

B

```
break;
26
            case 7:
27
            printf("Pig");
28
            break;
29
             case 8:
30
             printf("Rat");
31
             break;
32
             case 9:
33
             printf("Ox");
34
             break;
35
             case 10:
36
             printf("Tiger");
37
             break;
38
             case 11:
39
             printf("Hare");
40
             break;
41
42
         return 0;
43
44
```

print+("Dog");

| | Input | Expected | Got | |
|---|-------|----------|--------|---|
| ~ | 2004 | Monkey | Monkey | ~ |
| / | 2010 | Tiger | Tiger | ~ |

Passed all tests! <

B

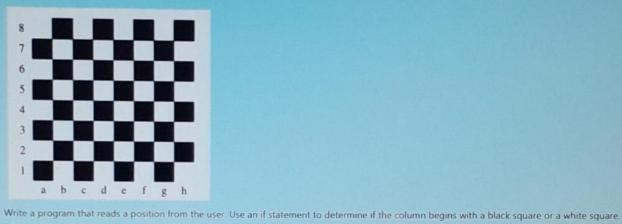
Correct

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:

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.

The square is black.

Sample Input 2

d 5

Sample Output 2

The square is white.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
   int main()
2
3 + {
        int num, colour;
4
5
        char ch;
        scanf("%c %d", &ch, &num);
6
        colour = ch + num;
7
        if (colour % 2 == 0)
8
9 +
            printf("The square is black.");
10
11
12
        else
13 +
            printf("The square is white.");
14
15
16
        return 0;
17
```

```
int num,colour;
4
5
        char ch;
        scanf("%c %d", &ch, &num);
6
        colour = ch + num;
 7
        if (colour % 2 == 0)
8
9 .
           printf("The square is black.");
10
11
12
        else
13 +
        printf("The square is white.");
14
15
        return 0;
16
17 }
```

| | 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! <