

Week-03-Decision Making and Branching - if, if..else and nested if..else, if..else if and switch...case

Week-03-01-Practice Session-Coding

✓ Done

Week-03-02-Practice Session-Coding

✓ Done

Week-03-03-Practice Session-Coding

✓ Done

Array Applications

Mark as done

Problem solving with Strings

Mark as done

String manipulation functions

Mark as done



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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b;
5     scanf("%d %d",&a,&b);
6     if(a%10==b%10)
7     {
8         printf("true");
9     }
10    }
11    else
12        printf("false");
13    return 0;
14 }
```

	Input	Expected	Got	
✓	25 53	false	false	✓
✓	27 77	true	true	✓

Passed all tests! ✓

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     if(n%2!=0)
7     {
8         printf("Weird");
9     }
10    else if(n%2==0&&n>=2&&n<=5)
11    {
12        printf("Not Weird");
13    }
14    else if(n%2==0&&n>=6&&n<=20)
15    {
16        printf("Weird");
17    }
18    else if(n%2==0&&n>20)
19    {
20        printf("Not Weird");
21    }
22    }
23    }
24    return 0;
25 }
```

	Input	Expected	Got	
✓	3	Weird	Weird	✓
✓	24	Not Weird	Not Weird	✓

Passed all tests! ✓



Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b,c;
5     scanf("%d %d %d",&a,&b,&c);
6     if(a>b&&a>c)
7     {
8         if(b*b+c*c==a*a)
9             printf("yes");
10        else
11            printf("no");
12    }
13    else if(b>a&&b>c)
14    {
15        if(a*a+c*c==b*b)
16            printf("yes");
17        else
18            printf("no");
19    }
20    else
21    {
22        if(a*a+b*b==c*c)
23            printf("yes");
24        else
25            printf("no");
26    }
27
28    return 0;
29 }
30 }
```

	Input	Expected	Got	
✓	3 5 4	yes	yes	✓
✓	5 8 2	no	no	✓

Passed all tests! ✓

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     switch(n)
7     {
8         case 3:
9             printf("Triangle");
10            break;
11        case 4:
12            printf("Quadrilateral");
13            break;
14        case 5:
15            printf("Pentagon");
16            break;
17        case 6:
18            printf("Hexagon");
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        case 10:
30            printf("Decagon");
31            break;
32        default:
33            printf("The number of sides is not supported.");
34    }
35    return 0;
36 }
```



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22     break;
23 case 8:
24     printf("Octagon");
25     break;
26 case 9:
27     printf("Nonagon");
28     break;
29 case 10:
30     printf("Decagon");
31     break;
32 default:
33     printf("The number of sides is not supported.");
34 }
35 return 0;
36 }
```

	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! ✓

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 2012 being another year of the Dragon, and 1990 being another year of the Ox.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int x;
5     scanf("%d",&x);
6     if(x%12==8)
7
8         printf("Dragon");
9
10    else if(x%12==9)
11
12        printf("Snake");
13
14    else if(x%12==10)
15
16        printf("Horse");
17
18    else if(x%12==11)
19
20        printf("Sheep");
21
22    else if(x%12==0)
23
24        printf("Monkey");
25
26    else if(x%12==1)
27
28        printf("Rooster");
29
30    else if(x%12==2)
31
32        printf("Dog");
33
34    else if(x%12==3)
35
36        printf("Pig");
```

```
28     printf("Rooster");
29
30 else if(x%12==2)
31
32     printf("Dog");
33
34 else if(x%12==3)
35
36     printf("Pig");
37
38 else if(x%12==4)
39
40     printf("Rat");
41
42 else if(x%12==5)
43
44     printf("Ox");
45
46 else if(x%12==6)
47
48     printf("Tiger");
49
50
51 else if(x%12==7)
52
```

	Input	Expected	Got	
✓	2004	Monkey	Monkey	✓
✓	2010	Tiger	Tiger	✓

Passed all tests! ✓

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```
1 #include<stdio.h>
2 int main()
3 {
4     int x;
5     char y;
6     scanf("%c %d",&y,&x);
7     if(y=='a'||y=='c'||y=='e'||y=='g')
8     {
9         if(x%2==0)
10        {
11            printf("The square is white.");
12        }
13    }
14    else
15        printf("The square is black.");
16    }
17    if(y=='b'||y=='d'||y=='f'||y=='h')
18    {
19        if(x%2==0)
20        {
21            printf("The square is black.");
22        }
23    }
24    else
25        printf("The square is white.");
26    }
27
28 }
```

	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! ✓

sver: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int y,m,d,i,total;
5     scanf("%d\n %d\n %d",&d,&m,&y);
6     for(i=1;i<m;i++)
7     {
8         if(y%4==0)
9         {
10             if(i==2)
11             {
12                 total+=29;
13             }
14             else if(i%2==0)
15             {
16                 total+=30;
17             }
18             else
19             {
20                 total+=31;
21             }
22         }
23     }
24     else{
25         if(i==2)
26         {
27             total+=28;
28         }
29         else if(i%2==0)
30         {
31             {total+=30;
32         }
33     }
34     else
35     {
36         total+=31;
37     }
38 }
39 }
```

```
22
23     }
24     else{
25         if(i==2)
26         {
27             total+=28;
28         }
29         else if(i%2==0)
30         {
31             total+=30;
32         }
33     }
34     else
35     {
36         total+=31;
37     }
38 }
39 }
40 }
41 }
42 printf("%d",total+d);
43 return 0;
44 }
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,b;
5     char c;
6     scanf("%c",&c);
7     scanf("\n%d \n%d",&a,&b);
8     if(c=='R')
9     {
10         printf("%d",a*b);
11     }
12     else if(c=='S')
13     {
14         printf("%d", (a*b)/2);
15     }
16     else if(c=='T')
17     {
18         printf("%d",a*b);
19     }
20     }
21     else
22     {
23         printf("0");
24     }
25 }
26 return 0;
27 }
```

Input	Expected	Got
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	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	✓

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i;
5     scanf("%d",&n);
6     i=(n%296);
7     if(i%10==1)
8         printf("Monday");
9     else if(i%10==2)
10        printf("Tuesday");
11    else if(i%10==3)
12        printf("Wednesday");
13    else if(i%10==4)
14        printf("Thursday");
15    else if(i%10==5)
16        printf("Friday");
17    else if(i%10==6)
18        printf("Saturday");
19    else if(i%10==7)
20        printf("Kryptonday");
21    else if(i%10==8)
22        printf("Coluday");
23    else if(i%10==9)
24        printf("Daxamday");
25    else if(i%10==0)
26        printf("Sunday");
27 return 0;
28 }
```

	Input	Expected	Got	
✓	7	Kryptonday	Kryptonday	✓
✓	1	Monday	Monday	✓

Passed all tests! ✓

Finish review