

# Week 3

Section: Week-03-Decision Making

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MADHUJA BA 2024-CSE M2

REC-CIS

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

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Lecture Notes

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Assessment-01-Overview of C. Constants. Variables ...

Assessment-02-Operators and Expressions, Managing Input and Output Operations

Assessment-03-Decision Making and Branching - if, if...else and nested if...else

Week-03-01-Practice Session-Coding

Week-03-02-Practice Session-Coding

Week-03-03-Practice Session-Coding

Array Applications

Problem solving with Strings

String manipulation functions

Done

Done

Done

Done

Done

Done

Week-03-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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Flag question

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int m,n,num1,num2;
5     scanf("%d %d",&m,&n);
6     num1 = m%10;
7     num2 = n%10;
8     if(num1 == num2)
9     {
10         printf("true\n");
11     }
12     else
13     {
14         printf("false\n");
15     }
16     return 0;
17 }
18 }
```

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

Passed all tests! ✓

Week-03-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Week-03-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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```
1 #include<stdio.h>
2 int main(){
3     int a,b,c;
4     scanf("%d %d %d", &a, &b, &c);
5     if(a*a + b*b == c*c || b*b + c*c == a*a || a*a + c*c==b*b){
6         printf("yes");
7     }
8     else{
9         printf("no");
10    return 0;
11    }
12 }
13 }
```

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

Passed all tests! ✓

REC-CIS

11

Sample Output 3

The number of sides is not supported.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     if (n>=3 && n<=10)
7     {
8         if (n==3)
9         {
10             printf("Triangle");
11         }
12         else if (n==4)
13         {
14             printf("Square");
15         }
16         else if (n==5)
17         {
18             printf("Pentagon");
19         }
20         else if (n==6)
21         {
22             printf("Hexagon");
23         }
24         else if (n==7)
25         {
```

REC-CIS

```
28         else if (n==8)
29         {
30             printf("Octagon");
31         }
32         else if (n==9)
33         {
34             printf("Nonagon");
35         }
36         else if (n==10)
37         {
38             printf("Decagon");
39         }
40     }
41     else
42     {
43         printf("The number of sides is not supported.");
44     }
45
46     return 0;
47 }
48
49
```

	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! ✓

REC-CIS

```
1 #include<stdio.h>
2 int main(){
3     int year;
4     scanf("%d", &year);
5     const char*zodiac[]={"Dragon","Snake","Horse","Sheep","Monkey","Rooster","Dog","pig","Rat","Ox","Tiger","Hare"};
6     int index = (year-2000)%12;
7     if(index < 0){
8         index+=12;
9     }
10    printf("%s\n",zodiac[index]);
11    return 0 ;
12 }
13
```

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

Passed all tests! ✓

REC-CIS

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

	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! ✓

Week-03-03-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int d,m,y;
5     scanf("%d %d %d", &d,&m,&y);
6     switch(m-1){
7         case 11:
8             d= d+30;
9         case 10:
10            d = d+31;
11        case 9:
12            d = d+30;
13        case 8:
14            d = d+31;
15        case 7:
16            d = d+31;
17        case 6 :
18            d= d+30;
19        case 5 :
20            d= d+31;
21        case 4:
22            d = d+30;
23        case 3:
24            d= d+31;
25        case 2:
26            if((( y%4 ==0)&&(y%100!=0))|| (y%400==0)){
27                d = d+29;
28            }
29            else{
30                d=d+28;
31            }
32        case 1 :
33            d = d+31;
34        }
35        printf("%d",d);
36        return 0;
37    }
```

Week-03-03-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

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```
30         u=u+z8;
31     }
32     case 1 :
33         d = d+31;
34     }
35     printf("%d",d);
36     return 0;
37 }
```

	Input	Expected	Got	
✓	18	170	170	✓
	6			
	2020			

Passed all tests! ✓

REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     char shape; int l, b;
4     scanf("%c\n%d\n%d", &shape, &l, &b);
5     switch(shape){
6         case 'R':
7             printf("%d", (l * b));
8             break;
9         case 'S':
10            printf("%d", (l * b / 2));
11            break;
12         case 'T':
13            printf("%d", (l * b));
14            break;
15         default:
16            printf("0");
17            break;
18     }
19     return 0;
20 }
```

	Input	Expected	Got	
✓	T 10 20	200	200	✓
✓	S 30 40	600	600	✓

REC-CIS

```
30     u=u+28;
31     }
32     case 1 :
33         d = d+31;
34     }
35     printf("%d",d);
36     return 0;
37 }
```

	Input	Expected	Got	
✓	18 6 2020	170	170	✓

Passed all tests! ✓

REC-CIS

```
1 #include<stdio.h>
2 int main(){
3     int n,day,days;
4     scanf("%d",&n);
5     day=n%296;
6     days=day%10;
7     switch(days+1){
8         case 1:
9             printf("Sunday");
10            break;
11            case 2:
12                printf("Monday");
13                break;
14            case 3:
15                printf("Tuesday");
16                break;
17            case 4:
18                printf("Wednesday");
19                break;
20            case 5:
21                printf("Thursday");
22                break;
23            case 6:
24                printf("Friday");
25                break;
26            case 7:
27                printf("Saturday");
28                break;
29            case 8:
30                printf("Kryptonday");
31                break;
32            case 9:
33                printf("Coluday");
34                break;
35            case 10:
36                printf("Daxamday");
37                break;
38    }
```

```
39     return 0;
40 }
```

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

Passed all tests! ✓

Finish review