

REC-CIS

RESHMASHRI S 2024-IT R2

GE23131-Programming Using C-2024

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Assessment-02-Operators

Profit Calculator

✓ Done

Attempts allowed: 1

Time limit: 1 hour 30 mins

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 5:25 PM
Duration	50 days

Review

No more attempts are allowed

Profit Calculator: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=61496&cmid=60

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For example:

Input	Result
1000	900
2	
1	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int x,a,b,profit;
5     scanf("%d%d%d",&x,&a,&b);
6     profit=((x*a)-(x*b))-100;
7     printf("%d",profit);
8     return 0;
9 }
```

Assessment-02-Operators

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```
4 int x,a,b,profit;
5 scanf("%d%d%d",&x,&a,&b);
6 profit=((x*a)-(x*b))-100;
7 printf("%d",profit);
8 return 0;
9 }
10 }
```

	Input	Expected	Got	
✓	1000 2 1	900	900	✓

Passed all tests! ✓

Finish review

Assessment-02-Operators

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Money with Baba

✓ Done

Attempts allowed: 1

Time limit: 1 hour 30 mins

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 6:12 PM
Duration	49 days 23 hours

Review

Money with Baba: Attempt review | REC-CIS - Google Chrome

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REC-CIS

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 6:12 PM
Duration	49 days 23 hours

Question 1
Correct
Marked out of 1.00
[Flag question](#)

Baba is very kind to beggars and every day Baba donates half of the amount he has when ever a beggar requests him. The money M left in Baba's hand is passed as the input and the number of beggars B who received the alms are passed as the input. The program must print the money Baba had in the beginning of the day.

Input Format:

The first line denotes the value of M.
The second line denotes the value of B.

Output Format:

The first line denotes the value of money with Baba in the beginning of the day.

Example Input/Output:

Input:

100
2

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Output:

400

Explanation:

Baba donated to two beggars. So when he encountered second beggar he had $100*2 = \text{Rs.}200$ and when he encountered 1st he had $200*2 = \text{Rs.}400$.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int m,b,money;
5     scanf("%d%d",&m,&b);
6     money=(m*2+m*b);
7     printf("%d",money);
8     return 0;
9 }
```

Money with Baba: Attempt review | REC-CIS - Google Chrome

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```
3 {
4     int m,b,money;
5     scanf("%d%d",&m,&b);
6     money=(m*2+m*b);
7     printf("%d",money);
8     return 0;
9 }
```

	Input	Expected	Got	
✓	100 2	400	400	✓

Passed all tests! ✓

Finish review

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Punctuality Incentive

✓ Done

Re-attempt quiz

Attempts allowed: 2

Time limit: 1 hour 30 mins

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 6:22 PM
Duration	49 days 23 hours

Punctuality Incentive: Attempt review | REC-CIS - Google Chrome

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1

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 6:22 PM
Duration	49 days 23 hours

Question 1
Correct
Marked out of 1.00
Flag question

The CEO of company ABC Inc wanted to encourage the employees coming on time to the office. So he announced that for every consecutive day an employee comes on time in a week (starting from Monday to Saturday), he will be awarded Rs.200 more than the previous day as "Punctuality Incentive". The incentive I for the starting day (ie on Monday) is passed as the input to the program. The number of days N an employee came on time consecutively starting from Monday is also passed as the input. The program must calculate and print the "Punctuality Incentive" P of the employee.

Input Format:

The first line denotes the value of I.
The second line denotes the value of N.

Output Format:

The first line denotes the value of P.

Example Input/Output:

Input:

Punctuality Incentive: Attempt review | REC-CIS - Google Chrome

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Input:

500
3

Output:

2100

Explanation:

On Monday the employee receives Rs.500, on Tuesday Rs.700, on Wednesday Rs.900
So total = Rs.2100

For example:

Input	Result
500 3	2100
100 3	900

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
```

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```
1 #include<stdio.h>
2 int main()
3 {
4     int i,n,p;
5     scanf("%d%d",&i,&n);
6     p=((i*n)+(n*200));
7     printf("%d",p);
8     return 0;
9 }
10
```

	Input	Expected	Got	
✓	500 3	2100	2100	✓
✓	100 3	900	900	✓

Passed all tests! ✓

Construct

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Chocolates Remaining

✓ Done

Attempts allowed: 1

Time limit: 1 hour 30 mins

Your attempts

Attempt 1

Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Sunday, 3 November 2024, 6:29 PM

Duration 49 days 23 hours

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Chocolates Remaining: Attempt review | REC-CIS - Google Chrome

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Duration	49 days 23 hours

Question 1
Correct
Marked out of 1.00
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Bajan Lal distributes C chocolates to school N students every Friday. The C chocolates are distributed among N students equally and the remaining chocolates R are given back to Bajan Lal.

As an example if C=100 and N=40, each student receives 2 chocolates and the balance $100-40*2 = 20$ is given back.

If C=205 and N=20, then each student receives 10 chocolates and the balance $205-20*10 = 5$ is given back.

Help the school to calculate the chocolates to be given back when C and N are passed as input.

Input Format:

The first line denotes C
The second line denotes N

Output Format:

The first line denotes R - the number of chocolates to be given back.

Example Input/Output:

Chocolates Remaining: Attempt review | REC-CIS - Google Chrome

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Example Input/Output:

Input:

```
300  
45
```

Output:

```
30
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>  
2 int main()  
3 {  
4     int c,n,r;  
5     scanf("%d%d",&c,&n);  
6     r=(c%n);  
7     printf("%d",r);  
8     return 0;  
9 }
```

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int c,n,r;
5     scanf("%d%d",&c,&n);
6     r=(c%n);
7     printf("%d",r);
8     return 0;
9 }
```

	Input	Expected	Got	
✓	300 45	30	30	✓

Passed all tests! ✓

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if Construct

✓ Done

Re-attempt quiz

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 6:42 PM
Duration	49 days 22 hours

Review



if Construct: Attempt review | REC-CIS - Google Chrome

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Completed	Sunday, 3 November 2024, 6:42 PM
Duration	49 days 22 hours

Question 1

Correct

Marked out of 1.00

Flag question

The general format of if statement is

```
if (condition) {
    statement-1;
    statement-2;
    ...
    statement-n;
}
```

The if construct is a **selective statement**, the statements within the block are executed only once when the **condition evaluates to true**, otherwise the control goes to the first statement after the if construct.

If only one statement is presented in the if construct then there is no need to specify the braces {}, i.e., if braces are not specified for the if construct, by default the next immediate statement is the only statement considered for the if construct.

Below code prints the number only when it is **divisible by 3**:

```
#include <stdio.h>
int main()
{
    int num;
    printf("Enter a number : ");
    scanf("%d", &num);
    if (num % 3 == 0)
    {
```

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```
    printf("Given number %d is divisible by 3", num);
}
return 0;
}

In the above code, num % 3 == 0 is the condition, which verifies whether the number is divisible by 3. Only if the condition returns 1 (true) then the control enters in to the if-block and executes the statement.
```

Fill in the missing code in the below program to check whether the given number is divisible by 3 or not.

For example:

Input	Result
9	Given number 9 is divisible by 3
7	Given number 7 is not divisible by 3

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int num;
6     scanf("%d", &num);
7     if(num % 3 == 0)
8     {
9         printf("Given number %d is divisible by 3\n", num);
10    }
11    if(num % 3 != 0)
12    {
13        printf("Given number %d is not divisible by 3\n", num);
```

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Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int num;
6     scanf("%d", &num);
7     if(num % 3 == 0)
8     {
9         printf("Given number %d is divisible by 3\n", num);
10    }
11    if(num % 3 != 0)
12    {
13        printf("Given number %d is not divisible by 3\n", num);
14    }
15    return 0;
16 }
```

	Input	Expected	Got	
✓	9	Given number 9 is divisible by 3	Given number 9 is divisible by 3	✓
✓	7	Given number 7 is not divisible by 3	Given number 7 is not divisible by 3	✓

Passed all tests! ✓

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R2

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if-else Construct

[✓ Done](#)[Re-attempt quiz](#)

Time limit: 1 hour 30 mins

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 8:05 PM
Duration	49 days 21 hours

[Review](#)

if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

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Show one page at a time

Finish review

Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Sunday, 3 November 2024, 8:05 PM
Duration 49 days 21 hours

Question 1
Correct
Marked out of 1.00
Flag question

The if statement tells a program to execute a certain section of code only if a particular test evaluates to true. `if (expression) {statement}.`

Below is a sample code which uses a if statement:

```
int distinction_marks = 75;
if (marks > distinction_marks)
{
    printf("User secured distinction.\n");
}
```

An if statement will execute its block only when condition evaluates to 1 (**true**).

We can also conditionally execute another block when the condition evaluates to 0 (**false**) using the else construct. The else construct must be attached to an if, hence together they are referred to as if-else construct.

The if-else statement provides two different paths of execution depending on the result of the condition.

Below is the general syntax for the if-else statement :

```
if (expression)
{
    statement-1;
}
else
{
```

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```
else
{
    statement-2;
}
```

Below is an example with code:

```
int distinction_marks = 75;
if (marks > distinction_marks)
{
    printf("User secured distinction.\n");
}
else
{
    printf("User did not secure distinction.\n");
}
```

Fill in the missing code in the below program to check whether the user secured distinction or not.

For example:

Input	Result
76	User secured distinction.
21	User did not secure distinction.

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int marks, distinction_marks = 75;
```

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ENG IN
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REC-CIS

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int marks, distinction_marks = 75;
6     scanf("%d", &marks);
7     if(marks > distinction_marks)
8     {
9         printf("User secured distinction.\n");
10    }
11    else
12    {
13        printf("User did not secure distinction.\n");
14    }
15    return 0;
16 }
```

	Input	Expected	Got	
✓	76	User secured distinction.	User secured distinction.	✓
✓	21	User did not secure distinction.	User did not secure distinction.	✓

Passed all tests! ✓

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Question 2
Correct
Marked out of 1.00
[Flag question](#)

Write code which uses an if-else statement to check whether a given account balance is greater or lesser than the minimum balance.

Use the if-else statement and print "Balance is low" if the balance is less than **1000**, otherwise print "Sufficient balance".

For example, if the user gives the **input** as 1500:

1500

then the program should **print** the result as:

Sufficient balance

Similarly, if the input is given as 700 then print

Balance is low

[Hint: Make sure to read the input as a float value.]

For example:

Input	Result
1225	Sufficient balance
999.55	Balance is low

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     float Balance;
5     scanf("%f",&Balance);
6     if(Balance > 1000)
7     {
```

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     float Balance;
5     scanf("%f",&Balance);
6     if(Balance > 1000)
7     {
8         printf("Sufficient balance\n");
9     }
10    else
11    {
12        printf("Balance is low");
13    }
14    return 0;
15 }
```

	Input	Expected	Got	
✓	1225	Sufficient balance	Sufficient balance	✓
✓	999.55	Balance is low	Balance is low	✓

Passed all tests! ✓

9+ Breaking news
Meta apologises...  ENG IN 16:16 15-01-2025

if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question 3
Correct
Marked out of 1.00
[Flag question](#)

Fill in the missing code in the below program to check whether the student secured first class or not.

Note-1: Read 6 subjects marks, find total and percentage, then print the student secured first class or not.

Note-2: If percentage is greater than or equal to 60 then print student secured first class and the percentage.

For example:

Input	Result
45 67 34 57 68 81	Student did not secure a first class with 58.67%
67 68 65 56 59 69	Student secured a first class with 64.00%

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a,b,c,d,e,f,total;
6     float percentage;
7     scanf("%d %d %d %d %d %d", &a, &b, &c, &d, &e, &f);
8     total=a+b+c+d+e+f;
9     percentage=total/6.0;
10    if(percentage >= 60)
11    {
12        printf("Student secured a first class with %.2f%%\n", percentage);
13    }
14    else
15    {
16        printf("Student did not secure a first class with %.2f%%\n", percentage);
17    }
18    return 0;
```

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REC-CIS

ANSWER. (penalty regime: 0 / 10)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a,b,c,d,e,f,total;
6     float percentage;
7     scanf("%d %d %d %d %d",&a,&b,&c,&d,&e,&f);
8     total=a+b+c+d+e+f;
9     percentage=total/6.0;
10    if(percentage >= 60)
11    {
12        printf("Student secured a first class with %.2f%%\n", percentage);
13    }
14    else
15    {
16        printf("Student did not secure a first class with %.2f%%\n", percentage);
17    }
18    return 0;
19 }
```

	Input	Expected	Got	
✓	45 67 34 57 68 81	Student did not secure a first class with 58.67%	Student did not secure a first class with 58.67%	✓
✓	67 68 65 56 59 69	Student secured a first class with 64.00%	Student secured a first class with 64.00%	✓

Passed all tests! ✓

if-else Construct: Attempt review | REC-CIS - Google Chrome

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Question 4

Correct

Marked out of 1.00

Flag question

Write a program which uses an if-else statement to verify and print if the given number is an odd or an even.

For example, if the user gives the **input** as 10:

10

then the program should **print** the result as:

The given number 10 is an even number

If the input is given as 35, then the program should print the result as :

The given number 35 is an odd number

For example:

Input	Result
35	The given number 35 is an odd number
10	The given number 10 is an even number

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     if(n % 2 == 0)
8     {
```

if-else Construct: Attempt review | REC-CIS - Google Chrome

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Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     if(n % 2 == 0)
8     {
9         printf("The given number 10 is an even number");
10    }
11    else
12    {
13        printf("The given number 35 is an odd number");
14    }
15    return 0;
16 }
17 }
```

	Input	Expected	Got	
✓	35	The given number 35 is an odd number	The given number 35 is an odd number	✓
✓	10	The given number 10 is an even number	The given number 10 is an even number	✓

Passed all tests! ✓

if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question 5
Correct
Marked out of 1.00
[Flag question](#)

Write a program which uses an if-else statement to verify if the given character is an alphabet or not.

For example, if the user gives the **input** as W:

W

then the program should **print** the result as:

Given character W is an alphabet

If the input us given as 7, then print the result as:

Given character 7 is not an alphabet

[Hint: The ASCII values of alphabets 'A' to 'Z' are 65 to 90 and 'a' to 'z' are 97 to 122.]

For example:

Input	Result
W	Given character W is an alphabet
7	Given character 7 is not an alphabet

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char ch;
5     scanf("%c",&ch);
6     if((ch >= 65 && ch <= 90) || (ch >= 97 && ch <= 122))
7     {
8         printf("Given character W is an alphabet");
9     }
}
```

if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     char ch;
5     scanf("%c",&ch);
6     if((ch >= 65 && ch <=90) || (ch >= 97 && ch <= 122))
7     {
8         printf("Given character W is an alphabet");
9     }
10    else
11    {
12        printf("Given character 7 is not an alphabet");
13    }
14    return 0;
15 }
16
```

	Input	Expected	Got	
✓	W	Given character W is an alphabet	Given character W is an alphabet	✓
✓	7	Given character 7 is not an alphabet	Given character 7 is not an alphabet	✓

Passed all tests! ✓



RESHMASHRI S 2024-IT

R2

REC-CIS

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Nested if-else Construct

 [Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 5 November 2024, 8:28 AM
Duration	48 days 9 hours

[Review](#)

Nested if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

1

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 5 November 2024, 8:28 AM
Duration	48 days 9 hours

Question 1
Correct
Marked out of 1.00
Flag question

When an if-else construct appear as a statement within another if-block or a else-block, it is referred to as nesting of if-else construct.

Below is an example of a **nested if-else** construct:

```
if (expression_1)
{
    if (expression_2)
    {
        if (expression_3)
        {
            statement_1;
        }
        else
        {
            statement_2;
        }
    }
    else
    {
        statement_3;
    }
}
```

In the above syntax, the **statement_2** will be executed only when the conditions in expression_1, expression_2 and expression_3 evaluates to 1 (true).

Fill in the missing code in the below program to find the **largest** of three numbers using nested if-else.

Nested if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

In the above syntax, the **Statement_2** will be executed only when the conditions in expression_1, expression_2 and expression_3 evaluates to 1 (true).

Fill in the missing code in the below program to find the **largest** of three numbers using nested if-else.

For example:

Input	Result
23 56 77	77 is greater than 23 and 56

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a, b, c;
6     scanf("%d %d %d", &a, &b, &c);
7     // Correct the below code
8     if((a>b)&&(a>c))
9     {
10         printf("%d is greater than %d and %d\n", a, b, c);
11     }
12     else if(b>c)
13     {
14         printf("%d is greater than %d and %d\n", c, a, b);
15     }
16
17     else
18     {
19         printf("%d is greater than %d and %d\n", c, a, b);
20     }
21
22 }
```

Nested if-else Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a, b, c;
6     scanf("%d %d %d", &a, &b, &c);
7     // Correct the below code
8     if((a>b)&&(a>c))
9     {
10         printf("%d is greater than %d and %d\n", a, b, c);
11     }
12     else if(b>c)
13     {
14         printf("%d is greater than %d and %d\n", c, a, b);
15     }
16     else
17     {
18         printf("%d is greater than %d and %d\n", c, a, b);
19     }
20
21
22
23
24     return 0;
25 }
```

	Input	Expected	Got	
✓	23 56 77	77 is greater than 23 and 56	77 is greater than 23 and 56	✓

Passed all tests! ✓

PROT CALCULATOR

Breaking news
Meta apologises...

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16:18 ENG IN 15-01-2025



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REC-CIS

RESHMASHRI S 2024-IT R2

Week 1 Programming Using C-2024

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if-else-if Construct

[Done](#)[Re-attempt quiz](#)

Time limit: 1 hour 30 mins

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 7 November 2024, 6:38 PM
Duration	45 days 22 hours

[Review](#)

if-else-if Construct: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=73399&cmid=67

REC-CIS

Quiz navigation

1 2 3 4

Show one page at a time

Finish review

Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 7 November 2024, 6:38 PM
Duration 45 days 22 hours

Question 1
Correct
Marked out of 1.00
Flag question

The if-else-if construct extends the if-else construct by allowing to chain multiple if constructs as shown below:

```
if (expression_1)
{
    statement_1;
}
else if (expression_2)
{
    statement_2;
}
else if (expression_3)
{
    statement_3;
}
else if (expression_4)
{
    statement_4;
}
else
{
    statement_5;
}
```

As shown in the above syntax, multiple if constructs can be chained to any length. The else construct which appears at the end is optional, and if it is to be included it has to be only at the end.

The if-else-if construct is used whenever we have multiple mutually exclusive if conditions which work on the same input.

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REC-CIS

The if-else-if construct is used whenever we have multiple mutually exclusive if conditions which work on the same input.

In a if-else-if construct the conditions are evaluated from top to bottom. Whenever a condition evaluates to **true** (1), the control enters into that if-block and after that the control comes out of the complete if-else-if construct ignoring all the remaining if and else constructs that may exist below the currently satisfied if-block.

For example, if the condition in the expression_2 is the first condition to evaluate to **true** after executing statement_2 the control comes out of the complete if-else-if construct.

The below program reads a character from the console and should print if the given character is an alphabet or a digit. Do not remove the existing code, add the missing lines of code which employs the if-else-if statement to produce appropriate output.

For example:

Input	Result
A	Given character A is an alphabet
8	Given character 8 is a digit
%	Given character % is neither an alphabet nor a digit

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     char ch;
6     scanf("%c",&ch);
7     if((ch>='a')&&(ch<='z'))||((ch>='A')&&(ch<='Z')))
8     {
9         printf("Given character %c is an alphabet\n", ch);
10    }
```

and Expressions Managing

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if-else-if Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     char ch;
6     scanf("%c",&ch);
7     if((ch>='a')&&(ch<='z')||((ch>='A')&&(ch<='Z')))
8     {
9         printf("Given character %c is an alphabet\n", ch);
10    }
11    else if((ch>='0')&&(ch<='9'))
12    {
13        printf("Given character %c is a digit\n", ch);
14    }
15    else
16    {
17        printf("Given character %c is neither an alphabet nor a digit\n", ch);
18    }
19    return 0;
20 }
```

Input	Expected	Got	
✓ A	Given character A is an alphabet	Given character A is an alphabet	✓
✓ 8	Given character 8 is a digit	Given character 8 is a digit	✓
✓ %	Given character % is neither an alphabet nor a digit	Given character % is neither an alphabet nor a digit	✓

Passed all tests! ✓

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if-else-if Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question 2
Correct
Marked out of 1.00
[Flag question](#)

The following code uses if-else statement to check whether the given integer number is a valid **leap year** or not.

Use if-else statement and print "_ is a leap year":

- if a year is divisible by **4** and should not be divisible by **100**.
- If a year is divisible by **400**.

Otherwise, print "_ is not a leap year".

Fill in the missing code in the below program to check whether the given year is a **leap year** or not..

For example:

Input	Result
1900	1900 is not a leap year

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int year;
6     scanf("%d", &year);
7
8     if((year%4==0)&&(year%100!=0))
9     {
10         printf("%d is a leap year\n", year);
11     }
12     else if(year%400==0)
13     {
14         printf("%d is a leap year\n", year);
15     }
16 }
```

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if-else-if Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int year;
6     scanf("%d", &year);
7
8     if((year%4==0)&&(year%100!=0))
9     {
10        printf("%d is a leap year\n", year);
11    }
12    else if(year%400==0)
13    {
14        printf("%d is a leap year\n", year);
15    }
16    else
17    {
18        printf("%d is not a leap year\n", year);
19    }
20
21 }
```

	Input	Expected	Got	
✓	1900	1900 is not a leap year	1900 is not a leap year	✓
✓	2000	2000 is a leap year	2000 is a leap year	✓

Passed all tests! ✓

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REC-CIS

Question 3
Correct
Marked out of 1.00
Flag question

Fill in the missing code in the below program to read an **integer value** for a variable age and use if-else statement to check the age and print appropriate ticket price.

If **age** is less than or equal to **infant_age** (3 years) or greater than or equal to **centenarian_age** (100 years) then print **Ticket Price: 0**.

Otherwise, If **age** is less than or equal to **child_age** (13 years) or greater than or equal to **senior_citizen_age** (60 years) then print **Ticket Price: 5**.

Otherwise, print **Ticket Price: 10**.

For example:

Input	Result
34	Ticket Price: 10
2	Ticket Price: 0
101	Ticket Price: 0
72	Ticket Price: 5

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int age;
6     scanf("%d", &age);
7     if(((age>=0)&&(age<=3))|| (age>=100))
8     {
9         printf("Ticket Price: 0\n");
}
```

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REC-CIS

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int age;
6     scanf("%d", &age);
7     if(((age>=0)&&(age<=3))||(age>=100))
8     {
9         printf("Ticket Price: 0\n");
10    }
11    else if((age>=4&&age<=12)|| (age>=60&&age<=99))
12    {
13        printf("Ticket Price: 5\n");
14    }
15    else
16    {
17        printf("Ticket Price: 10\n");
18    }
19    return 0;
20 }
```

	Input	Expected	Got	
✓	34	Ticket Price: 10	Ticket Price: 10	✓
✓	2	Ticket Price: 0	Ticket Price: 0	✓
✓	101	Ticket Price: 0	Ticket Price: 0	✓
✓	72	Ticket Price: 5	Ticket Price: 5	✓

Passed all tests! ✓

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REC-CIS

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int age;
6     scanf("%d", &age);
7     if(((age>=0)&&(age<=3))||(age>=100))
8     {
9         printf("Ticket Price: 0\n");
10    }
11    else if((age>=4&&age<=12)|| (age>=60&&age<=99))
12    {
13        printf("Ticket Price: 5\n");
14    }
15    else
16    {
17        printf("Ticket Price: 10\n");
18    }
19    return 0;
20 }
```

	Input	Expected	Got	
✓	34	Ticket Price: 10	Ticket Price: 10	✓
✓	2	Ticket Price: 0	Ticket Price: 0	✓
✓	101	Ticket Price: 0	Ticket Price: 0	✓
✓	72	Ticket Price: 5	Ticket Price: 5	✓

Passed all tests! ✓

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REC-CIS

Question 4
Correct
Marked out of 1.00
[Flag question](#)

See the below code which uses a if-else-if statement for calculating **AM** or **PM** for a given **hour**.

In the **main()** function read an integer value between **0** and **23** for the variable hour and use if-else-if statement to display **AM** or **PM**.

Fill in the if condition to check if the given hour is between **0** and **11** (both inclusive) for **AM**. Fill in the else if condition to check if the given hour is between **12** and **23** (both inclusive) for **PM**.

For example:

Input	Result
9	AM
22	PM
24	Invalid Hour!!

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int hour;
6     scanf("%d", &hour);
7     if ((hour>=0)&&(hour<=11))
8     {
9         printf("AM\n");
10    }
11    else if ((hour>=12)&&(hour<=23))
12    {
13        printf("PM\n");
14    }
15 }
```

if-else-if Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

REJECT ANSWER

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int hour;
6     scanf("%d", &hour);
7     if ((hour>=0)&&(hour<=11))
8     {
9         printf("AM\n");
10    }
11    else if ((hour>=12)&&(hour<=23))
12    {
13        printf("PM\n");
14    }
15    else
16    {
17        printf("Invalid Hour!!\n");
18    }
19
20 }
21
```

	Input	Expected	Got	
✓	9	AM	AM	✓
✓	22	PM	PM	✓
✓	24	Invalid Hour!!	Invalid Hour!!	✓

Passed all tests! ✓

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R2

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GE23131-Programming Using C-2024

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switch-case Construct

 [Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 7 November 2024, 7:21 PM
Duration	45 days 22 hours

[Review](#)

switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

1 2

Show one page at a time

Finish review

Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 7 November 2024, 7:21 PM
Duration 45 days 22 hours

Question 1

Correct
Marked out of 1.00
Flag question

A switch statement is used to change the control flow of a program execution through multiple paths depending on an expression's value.

The below code demonstrates how to use a switch-case construct to print the corresponding English words for the digits (1 to 9) read from the standard input.

One way is to write a long nested if-else-if for the 10 numbers or the other way is to use a switch-case statement.

See and retype the below code which demonstrates the usage of switch statement to print the English word of the given number between 1 to 9.

```
#include <stdio.h>
int main()
{
    int value;
    scanf("%d", &value);
    switch (value)
    {
        case 1:
            printf("One");
            break;
        case 2:
            printf("Two");
            break;
        case 3:
            printf("Three");
            break;
        case 4:
            printf("Four");
            break;
        case 5:
            printf("Five");
            break;
        case 6:
            printf("Six");
            break;
        case 7:
            printf("Seven");
            break;
        case 8:
            printf("Eight");
            break;
        case 9:
            printf("Nine");
            break;
    }
}
```

switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
break;
case 3:
printf("Three");
break;
case 4:
printf("Four");
    break;
case 5:
printf("Five");
break;
case 6:
printf("Six");
break;
case 7:
printf("Seven");
    break;
case 8:
printf("Eight");
    break;
case 9:
printf("Nine");
    break;
case 10:
printf("Ten");
    break;
default:
printf("Number %d is not in the range 1 to 10", value);
}
return 0;
}
```

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switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

For example:

Input	Result
2	Two
9	Nine
15	Number 15 is not in the range 1 to 10

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int value;
5     scanf("%d",&value);
6     switch (value)
7     {
8         case 1:
9             printf("One");
10            break;
11         case 2:
12             printf("Two");
13            break;
14         case 3:
15             printf("Three");
16            break;
17         case 4:
18             printf("Four");
19            break;
20         case 5:
21             printf("Five");
22            break;
23         case 6:
24             printf("Six");
25            break;
}
```

switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
```

	Input	Expected	Got	
✓	2	Two	Two	✓
✓	9	Nine	Nine	✓
✓	15	Number 15 is not in the range 1 to 10	Number 15 is not in the range 1 to 10	✓

Passed all tests! ✓

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Search

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ENG IN
15-01-2025

switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question **2**

Correct

Marked out of 1.00

Flag question

Assume that the weekdays are provided with the below numbers:

Sunday \Rightarrow 0
Monday \Rightarrow 1
Tuesday \Rightarrow 2
Wednesday \Rightarrow 3
Thursday \Rightarrow 4
Friday \Rightarrow 5
Saturday \Rightarrow 6

Write a program to read the **weekday number** from the standard input and print the **weekday name** using switch-case.

For example, if the user gives the **input** as 1:

1

then the program should **print** the result as:

Monday

Note: If the given input number is not in the range i.e., other than **0** to **6**, the output should be as given below:

Invalid weekday number

For example:

Input	Result
6	Saturday
0	Sunday
7	Invalid weekday number

switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int day;
5     scanf("%d",&day);
6     switch(day)
7     {
8         case 1:
9             printf("Monday\n");
10            break;
11        case 2:
12            printf("Tuesday\n");
13            break;
14        case 3:
15            printf("Wednesday\n");
16            break;
17        case 4:
18            printf("Thursday\n");
19            break;
20        case 5:
21            printf("Friday\n");
22            break;
23        case 6:
24            printf("Saturday\n");
25            break;
26        case 7:
27            printf("Invalid weekday number\n");
28            break;
29        default:
30            printf("Sunday");
31    }
32    return 0;
33 }
```

9+ 28°C
Partly sunny

Search

16:22 15-01-2025

switch-case Construct: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
16     break;
17 case 4:
18 printf("Thursday\n");
19 break;
20 case 5:
21 printf("Friday\n");
22 break;
23 case 6:
24 printf("Saturday\n");
25 break;
26 case 7:
27 printf("Invalid weekday number\n");
28 break;
29 default:
30     printf("Sunday");
31 }
32 return 0;
33 }
34 }
```

	Input	Expected	Got	
✓	6	Saturday	Saturday	✓
✓	0	Sunday	Sunday	✓
✓	7	Invalid weekday number	Invalid weekday number	✓

Passed all tests! ✓

Finish review



RESHMASHRI S 2024-IT

R2

REC-CIS

GE23131-Programming Using C-2024

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while loop

 [Done](#)[Re-attempt quiz](#)

Time limit: 3 hours

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 7 November 2024, 8:57 PM
Duration	45 days 20 hours

[Review](#)

while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

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7 8

Show one page at a time

Finish review

Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Thursday, 7 November 2024, 8:57 PM
Duration 45 days 20 hours

Question 1
Correct
Marked out of 1.00
Flag question

Most of the programming languages provide a special construct/statement using which we can repeatedly execute one or more statement as long as a condition is **true**. In C, we have while, do-while and for as the three main looping constructs or statements.

Below is a general syntax for using a while statement:

```
while (condition)
{
    statement_1;
    statement_2;
    ...
}
```

The block of code inside the opening and closing brace which follows the while-statement is called the **while-loop** body.

A while statement is used to execute some code repeatedly as long as a condition evaluates to true.

The condition is an expression which should always evaluate to either true or false.

- If it evaluates to true, the body containing one or more code statements is executed.
- If the expression evaluates to false, the control skips executing the **while-loop** body.

The while-loop construct is also referred to as an entry controlled loop. Meaning, first the condition is evaluated and only if the condition evaluates to true the body of the loop is executed. After executing the body the control is automatically transferred back to the condition and the process continues until the condition evaluates to false.

See and retype the below code which uses a while-loop to read multiple numbers from standard input and prints their sum when the **sum**

Assessment-02-Operators

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Search

16:22 15-01-2025

while loop: Attempt review | REC-CIS - Google Chrome

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See and retype the below code which uses a while-loop to read multiple numbers from standard input and prints their sum when the **sum** exceeds 100.

```
#include <stdio.h>

int main()
{
    int total = 0;
    while (total <= 100)
    {
        int num;
        scanf("%d", &num);
        total += num;
    }
    printf("The total of given numbers is : %d", total);
    return 0;
}
```

For example:

Input	Result
34	The total of given numbers is : 120
62	
24	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int total=0;
5     while(total <= 100)
6     {
```

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while loop: Attempt review | REC-CIS - Google Chrome

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int total=0;
5     while(total <= 100)
6     {
7         int num;
8         scanf("%d",&num);
9         total+=num;
10    }
11    printf("The total of given numbers is : %d",total);
12    return 0;
13 }
```

	Input	Expected	Got	
✓	34 62 24	The total of given numbers is : 120	The total of given numbers is : 120	✓

Passed all tests! ✓

Assessment-02-Operators

9+ 28°C Search ENG IN 16:23 15-01-2025

while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question 2
Correct
Marked out of 1.00
[Flag question](#)

The below sample code should print Ganga by number of times, where as the input is read by the programmer using **scanf()**.
Fill in the missing code so that it produces the desired output.
For example:

Input	Result
3	Ganga Ganga Ganga

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2 int main()
3 {
4     int i = 0,n;
5     scanf("%d",&n);
6     while (i<n)
7     {
8         i++;
9         printf("Ganga\n");
10    }
11 }
12 return 0;
13 }
```



while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Reset answer

```
1 #include <stdio.h>
2 int main()
3 {
4     int i = 0,n;
5     scanf("%d",&n);
6     while (i<n)
7     {
8         i++;
9         printf("Ganga\n");
10    }
11    return 0;
12 }
```

	Input	Expected	Got	
✓	3	Ganga Ganga Ganga	Ganga Ganga Ganga	✓

Passed all tests! ✓

Assessment-02-Operators

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Search

Windows Start button

myhp

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REC-CIS

Question 3
Correct
Marked out of 1.00
[Flag question](#)

Write a C program to print first n **natural numbers**.

For example, if the user gives the **input** as :

3

then the program should **print** the result as:

The natural numbers from 1 - 3 : 1 2 3

For example:

Input	Result
3	The natural numbers from 1 - 3 : 1 2 3
9	The natural numbers from 1 - 9 : 1 2 3 4 5 6 7 8 9

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i=1;
5     scanf("%d",&n);
6
7     printf("The natural numbers from 1 - %d : ",n);
8     while(i<=n)
9     {
10         printf("%d ",i);
11         i++;
12     }
13     return 0;
14 }
```

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i=1;
5     scanf("%d",&n);
6
7     printf("The natural numbers from 1 - %d : ",n);
8     while(i<=n)
9     {
10         printf("%d ",i);
11         i++;
12     }
13     return 0;
14 }
```

	Input	Expected	Got	
✓	3	The natural numbers from 1 - 3 : 1 2 3	The natural numbers from 1 - 3 : 1 2 3	✓
✓	9	The natural numbers from 1 - 9 : 1 2 3 4 5 6 7 8 9	The natural numbers from 1 - 9 : 1 2 3 4 5 6 7 8 9	✓

Passed all tests! ✓

Assessment-02-Operators

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REC-CIS

Question 4

Correct
Marked out of 1.00

[Flag question](#)

The below sample code should find the sum of **even numbers** between any two numbers.

[Hint: The numbers should be read by using scanf().]

Fill in the missing code so that it produces the desired output.

For example:

Input	Result
3 6	The sum of even integers between the given limits = 10

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int num1, num2, sum = 0;
6     scanf("%d%d",&num1,&num2); // Fill the missing code in the scanf()
7     if (num1 % 2 != 0)
8     { // If it is an odd number then add 1
9         num1 = num1 + 1;
10    }
11    while (num1<=num2)
12    { // Write the condition part
13        sum = sum + num1;
14        num1 = num1 + 2 ;
15    }
16    printf("The sum of even integers between the given limits = %d\n",sum);
17    return 0;
18 }
```



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Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int num1, num2, sum = 0;
6     scanf("%d%d",&num1,&num2); // Fill the missing code in the scanf()
7     if (num1 % 2 != 0)
8     { // If it is an odd number then add 1
9         num1 = num1 + 1;
10    }
11    while (num1<=num2)
12    { // Write the condition part
13        sum = sum + num1;
14        num1 = num1 + 2 ;
15    }
16    printf("The sum of even integers between the given limits = %d\n",sum);
17    return 0;
18 }
```

Input	Expected	Got
✓ 3 6	The sum of even integers between the given limits = 10	The sum of even integers between the given limits = 10 ✓

Passed all tests! ✓

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Question 5
Correct
Marked out of 1.00
[Flag question](#)

Fill in the missing code in the below program to read an **integer number** and find the reverse of the given number.

For example if the input is 1234, then the output will be 4321.

Hints

The logic of reversing of any number is pretty simple if you know how to find last digit of any number. Initially the variable reverse contains zero(0), the process of reversing involves four basic steps:

- Multiply the reverse variable by 10.
- Find the last digit of the given number by applying % 10.
- Add the last digit just found to reverse.
- Divide the original number by 10 to eliminate the last digit, which is not needed anymore.

Repeat the above four steps till the original number becomes 0 and finally we will be left with the reversed number in reverse variable.

For example:

Input	Result
1234	The reverse number of a given number = 4321
765	The reverse number of a given number = 567

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, digit, reverse = 0;
6     scanf("%d", &n);
```

while loop: Attempt review | REC-CIS - Google Chrome

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Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, digit, reverse = 0;
6     scanf("%d", &n);
7     while (n!=0)
8     {
9         digit = n%10;
10        reverse = reverse*10+digit;
11        n =n/10;
12    }
13    printf("The reverse number of a given number = %d" , reverse);
14    return 0;
15 }
```

	Input	Expected	Got	
✓	1234	The reverse number of a given number = 4321	The reverse number of a given number = 4321	✓
✓	765	The reverse number of a given number = 567	The reverse number of a given number = 567	✓

Passed all tests! ✓

Assessment-02-Operators

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Windows Start button

File

File Explorer

Microsoft Edge

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Question 6
Correct
Marked out of 1.00
[Flag question](#)

Fill in the missing code in the below sample program which finds the factorial of a given number.

Factorial of a non-negative integer n , denoted by $n!$, is the product of all positive integers less than or equal to n . For example, $5! = 5 * 4 * 3 * 2 * 1 = 120$.

The below sample code computes the factorial of a given non-zero integer.

The main() function declares an integer variable factorial and initializes it to 1, which it will use to store the computed factorial value.

It uses a **while-loop** to iterate from 2 to n multiplying the loop counter in each iteration with the factorial and storing the product again in factorial.

For example:

Input	Result
2	Factorial of given number 2 = 2
4	Factorial of given number 4 = 24

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i, n, factorial = 1;
6     scanf("%d", &n);
7     i = 2;
8     while (i<=n )
9     { // Write the condition
10        factorial = factorial*i ; // Fill the correct code
```

while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i, n, factorial = 1;
6     scanf("%d", &n);
7     i = 2;
8     while (i<=n )
9     { // Write the condition
10        factorial = factorial*i ; // Fill the correct code
11        i++;
12    }
13    printf("Factorial of given number %d = %d\n", n, factorial);
14    return 0;
15 }
```

	Input	Expected	Got	
✓	2	Factorial of given number 2 = 2	Factorial of given number 2 = 2	✓
✓	4	Factorial of given number 4 = 24	Factorial of given number 4 = 24	✓

Passed all tests! ✓

Assessment-02-Operators

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Windows Start button, Search bar, Taskbar icons (File Explorer, Edge, myhp, File, etc.), Network connection, Battery level, Date (15-01-2025)

while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question 7
Correct
Marked out of 1.00
[Flag question](#)

Below partial code is to verify if the given number is a prime number or not.

A prime number is a positive integer greater than 1, which is not divisible by any other number other than 1 and itself. Examples of a few prime numbers are 2, 3, 5, 7, 11, 13, 17, 19, etc.

Fill in the missing code so that it produces the desired output.

For example:

Input	Result
7	The given number 7 is a prime number
119	The given number 119 is not a prime number

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i = 2, count = 0 ; // initialize i and count with appropriate values
6     scanf("%d", &n);
7     while (i<=n/2)
8     { // complete the condition to iterate the loop
9         if (n%i==0)
10            { // complete the condition to check the remainder is 0 or not
11                count++;
12            }
13            i++;
14        }
15        if (count == 0)
16        { // complete the condition to check the count
17            printf("The given number %d is a prime number\n", n);
18        }
}
```

while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i = 2, count = 0 ; // initialize i and count with appropriate values
6     scanf("%d", &n);
7     while (i<=n/2 )
8     { // complete the condition to iterate the loop
9         if (n%i==0 )
10            { // complete the condition to check the remainder is 0 or not
11                count++;
12            }
13            i++;
14        }
15        if (count == 0)
16        { // complete the condition to check the count
17            printf("The given number %d is a prime number\n", n);
18        }
19        else
20        {
21            printf("The given number %d is not a prime number\n", n);
22        }
23        return 0;
24 }
```

	Input	Expected	Got	
✓	7	The given number 7 is a prime number	The given number 7 is a prime number	✓
✓	119	The given number 119 is not a prime number	The given number 119 is not a prime number	✓

Passed all tests! ✓

Assessment-02-Operators

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while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Question 8

Correct
Marked out of 1.00

[Flag question](#)

Below partial code is to verify if the given number is an armstrong number or not.

An armstrong number is a number that is the sum of its own digits raised to the power of number of digits that make up the original number.

For example, if the given number is 153, the total number of digits are 3, and the sum of cubes of each digit ($1^3 + 5^3 + 3^3$) is equal to the same number 153. Such a number is known as an armstrong number.

Let us take another example, if the given number is 9474, the total number of digits are 4, and the sum of the power of 4 of each digit ($9^4 + 4^4 + 7^4 + 4^4$) is equal to the same number 9474. Such a number is known as an armstrong number.

Similarly,
 $9 = 9^1 = 9$
 $371 = 3^3 + 7^3 + 1^3 = 27 + 343 + 1 = 371$
 $38208 = 3^4 + 8^4 + 2^4 + 0^4 + 8^4 = 81 + 256 + 16 + 0 + 81 = 38208$

Fill in the missing code so that it produces the desired output.

For example:

Input	Result
777	The given number 777 is not an armstrong number
9	The given number 9 is an armstrong number

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2 #include<math.h>
3 int main()
4 {
```

while loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
4 {  
5     int number, temp, rem,digit = 0, sum = 0,temp2;  
6     scanf("%d", &number);  
7     temp = number;  
8     while (number!=0)  
9     {  
10         number=number/10;  
11         digit++;  
12     }  
13     temp2=temp;  
14     while (temp2!=0)  
15     {  
16         rem=temp2%10;  
17         sum+=pow(rem,digit);  
18         temp2=temp2/10;  
19     }  
20     if (sum==temp)  
21     {  
22         printf("The given number %d is an armstrong number\n", temp);  
23     }  
24     else  
25     {  
26         printf("The given number %d is not an armstrong number\n", temp);  
27     }  
28     return 0;  
29 }
```

	Input	Expected	Got	
✓	777	The given number 777 is not an armstrong number	The given number 777 is not an armstrong number	✓
✓	9	The given number 9 is an armstrong number	The given number 9 is an armstrong number	✓

Passed all tests! ✓



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GE23131-Programming Using C-2024

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for loop

 [Done](#)[Re-attempt quiz](#)

Time limit: 3 hours

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 25 November 2024, 3:50 PM
Duration	28 days 1 hour

[Review](#)

for loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

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7 8

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Finish review

Status Finished
Started Monday, 23 December 2024, 5:33 PM
Completed Monday, 25 November 2024, 3:50 PM
Duration 28 days 1 hour

Question 1
Correct
Marked out of 1.00
Flag question

A for-loop is used to iterate over a range of values using a loop counter, which is a variable taking a range of values in some orderly sequence (e.g., starting at 0 and ending at 10 in increments of 1).

The value stored in a loop counter is changed with each iteration of the loop, providing a unique value for each individual iteration. The loop counter is used to decide when to terminate the loop.

A for-loop construct can be termed as an entry controlled loop.

Below is the syntax of a **for-loop** :

```
for (initialization; condition; update)
{
    statement(s);
}
```

1. The initialization expression initializes the loop counter; it is executed **once** at the start of the loop.
2. The loop continues to execute as long as the condition expression evaluates to true.
3. The update expression is executed after each iteration through the loop, to **increment, decrement or change the loop counter**.

Example with code :

```
int i;
for (i = 0; i < 10; i++)
{
    printf("%d\n",i);
}
```

1. Above **for-loop** statement initializes an integer variable i (which is the **loop counter**) as part of the initialization expression.

for loop: Attempt review | REC-CIS - Google Chrome

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REC-CIS

1. Above **for-loop** statement initializes an integer variable i (which is the **loop counter**) as part of the initialization expression.
2. In the update section, it increments the variable i by 1 using the post-increment expression i++.
3. The expression in condition is i < 10. The for-loop keeps on executing the code inside the loop body as long as this condition evaluates to true. And the loop terminates when the condition evaluates to false.
4. It is a good practice to always keep the loop body (which contains the code to be executed) within an opening-brace { and a closing-brace }.

Note : No ; at the end of the for statement.

Complete the below code to check your understanding of the for-loop syntax. The completed code should print numbers from 10 to 20, one per line.

For example:

Result
10 11 12 13 14 15 16 17 18 19 20

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2
```

9+ 28°C Partly sunny

Search

Windows Start button

File Explorer

Edge browser

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OneDrive

Task View

Calculator

File History

Google Chrome

Photoshop

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REC-CIS

Reset answer

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int i;
6     for(i=10;i<=20;i++)
7     {
8         printf("%d\n", i);
9     }
10    return 0;
11 }
```

	Expected	Got	
✓	10 11 12 13 14 15 16	10 11 12 13 14 15 16	✓

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```
6   for(i=10;i<=20;i++)
7   {
8       printf("%d\n", i);
9   }
10  return 0;
11 }
```

	Expected	Got	
✓	10	10	✓
	11	11	
	12	12	
	13	13	
	14	14	
	15	15	
	16	16	
	17	17	
	18	18	
	19	19	
	20	20	

Passed all tests! ✓

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Question 2

Correct

Marked out of 1.00

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Fill in the missing code in the below program to calculate the value of a^n , given two positive non-zero integers a and n .

The code in the main() function reads two integers from standard input and stores them in the variables a and n .

It uses a for-loop to multiply a with itself n number of times.

Variable a_power_n is used to store the computed value of a^n .

After the execution of for-loop is completed, the final value of a_power_n is printed to the standard output.

For example:

Input	Result
2 3	8

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2 int main()
3 {
4     int i, a, n, a_power_n=1;
5     scanf("%d %d", &a, &n);
6     for (i=1;i<n;i++)
7     { // Write the initialization, condition and increment part
8         a_power_n = a_power_n*a; // Calculate the value
9     }
10    printf("%d\n", a_power_n);
11    return 0;
12 }
```

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Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2 int main()
3 {
4     int i, a, n, a_power_n=1;
5     scanf("%d %d", &a, &n);
6     for (i=1;i<=n;i++)
7     { // Write the initialization, condition and increment part
8         a_power_n = a_power_n*a; // Calculate the value
9     }
10    printf("%d\n", a_power_n);
11    return 0;
12 }
```

	Input	Expected	Got	
✓	2 3	8	8	✓

Passed all tests! ✓

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Question 3
Correct
Marked out of 1.00
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Write a program to find **sum** and **mean** of **n** numbers.

Constraints:

- $1 \leq n \leq 10^6$
- $10^{-3} \leq \text{elements} \leq 10^3$
- Result of mean should print upto **2 decimal places**.

Sample test case:

4-----> First line of input is the value on n.

3 5 7 8-----> Second line of input is n space separated integer values.

Sum: 23----->Third line prints the Sum as required.

Mean: 5.75----->Fourth line prints the Mean as required.

Instruction: To run your custom test cases strictly map your input and output layout with the visible test cases.

For example:

Input	Result
4	Sum: 23
3 5 7 8	Mean: 5.75

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,a,i,sum=0;
5     float mean;
6     scanf("%d",&n);
7     for(i=1;i<=n;i++)
8 {
```

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3 5 7 8 Mean: 5.75

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,a,i,sum=0;
5     float mean;
6     scanf("%d",&n);
7     for(i=1;i<=n;i++)
8     {
9         scanf("%d",&a);
10        sum=sum+a;
11    }
12    {
13        mean=(sum*1.0)/n;
14        printf("Sum: %d\n",sum);
15        printf("Mean: %.2f",mean);
16    }
17    return 0;
18 }
```

	Input	Expected	Got	
✓	4 3 5 7 8	Sum: 23 Mean: 5.75	Sum: 23 Mean: 5.75	✓

Passed all tests! ✓

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Question 4

Correct

Marked out of 1.00

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Fill in the missing code in the below program to print the Fibonacci series i.e., 0 1 1 2 3 5 8 13 21...., up to the limit.

The code in the main() function reads one integer variable n. It uses a for loop to iterate from 0 to n and print the series.

By definition, the first two numbers in the Fibonacci sequence are 0 and 1, and each subsequent number is the sum of the previous two.

For example:

Input	Result
25	The Fibonacci series is : 0 1 1 2 3 5 8 13 21

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2 int main()
3 {
4     int fib1 = 0, fib2 = 1, fib3, n;
5     scanf("%d", &n);
6     printf("The Fibonacci series is : %d %d ", fib1, fib2);
7     fib3=fib1+fib2;
8     printf("%d ",fib3);
9     for (int i=3 ; i<n ; i++)
10    { // Write the initialization, condition and increment part;
11
12        fib1 = fib2 ; // Assign a value
13        fib2 = fib3 ;
14        fib3 = fib1+fib2;// Assign a value
15        if(fib3>n)
16            break;
17        printf("%d ",fib3);
18    }
19    return 0;
```

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Reset answer

```
1 #include <stdio.h>
2 int main()
3 {
4     int fib1 = 0, fib2 = 1, fib3, n;
5     scanf("%d", &n);
6     printf("The Fibonacci series is : %d %d ", fib1, fib2);
7     fib3=fib1+fib2;
8     printf("%d ",fib3);
9     for (int i=3 ; i<n ; i++)
10    { // Write the initialization, condition and increment part;
11
12        fib1 = fib2 ; // Assign a value
13        fib2 = fib3 ;
14        fib3 = fib1+fib2;// Assign a value
15        if(fib3>n)
16            break;
17        printf("%d ",fib3);
18    }
19    return 0;
20 }
```

	Input	Expected	Got	
✓	25	The Fibonacci series is : 0 1 1 2 3 5 8 13 21	The Fibonacci series is : 0 1 1 2 3 5 8 13 21	✓

Passed all tests! ✓

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Question 5

Correct

Marked out of 1.00

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Write a program that will print all the **English alphabets** from A to Z, each in a new line.

Hints

1. The code in the main() function can use a for loop to iterate over the characters 'A' to 'Z'.
2. Note that char data type is a numeric type and can be used in a for loop as a loop counter.
3. You can declare and initialize a loop counter char i and initialize it to 'A' (eg: char i = 'A'). The condition can similarly be $i \leq 'Z'$; and the update statement can be $i++$.
4. You can then print i directly which is of type char, using the **printf()** function with a newline character (\n).

For example:

Result
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S



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REC-CIS

G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int i;
5     for(i='A';i<='Z';i++)
6         printf("%c\n",i);
7     return 0;
8 }
```



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REC-CIS

Expected Got

	Expected	Got	
✓	A	A	✓
	B	B	
	C	C	
	D	D	
	E	E	
	F	F	
	G	G	
	H	H	
	I	I	
	J	J	
	K	K	
	L	L	
	M	M	
	N	N	
	O	O	
	P	P	
	Q	Q	
	R	R	
	S	S	
	T	T	
	U	U	
	V	V	
	W	W	
	X	X	
	Y	Y	
	Z	Z	

Passed all tests! ✓

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Question 6
Correct
Marked out of 1.00
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Write a program to read **n** numbers from the user and then count number of "**Odd**" and "**Even**" numbers.

Constraints:

- $1 \leq n \leq 10^6$
- $10^{-3} \leq \text{elements} \leq 10^3$

Sample test case:

3-----> First line of input is n i.e. 3.

5 6 7-----> Second line of input is n space separated integer values/elements.

Even: 1-----> Third line prints the output (the count of even elements).

Odd: 2----->Fourth line prints the output (the count of odd elements).

Note: Do use the **printf()** function with a **newline** character (**\n**) to print your results on newline.

Instruction: To run your custom test cases strictly map your input and output layout with the visible test cases.

For example:

Input	Result
3	Even: 1
5 6 7	Odd: 2

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,a,evencount=0,oddcount=0;
5     scanf("%d",&n);
6     for(i=0;i<n;i++)
7     {
```

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,a,evencount=0,oddcount=0;
5     scanf("%d",&n);
6     for(i=0;i<n;i++)
7     {
8         scanf("%d",&a);
9         if(a%2==0)
10            evencount++;
11        else
12            oddcount++;
13    }
14    printf("Even: %d\n",evencount);
15    printf("Odd: %d\n",oddcount);
16    return 0;
17 }
```

	Input	Expected	Got	
✓	3 5 6 7	Even: 1 Odd: 2	Even: 1 Odd: 2	✓

Passed all tests! ✓

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Question 7
Correct
Marked out of 1.00
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Fill in the missing code in the below program to verify whether the given number is perfect, abundant or deficient.

A number is said to be perfect if it equals the sum of its proper divisors. For example, **6** and **28** can be called **perfect numbers** as : **6 = 1 + 2 + 3** and **28 = 1 + 2 + 4 + 7 + 14**.

Alternatively, if the sum of a number's proper divisors **exceeds** the number itself, it is said to be abundant, while if the sum of a number's proper divisors is **less-than** the number itself, it is said to be deficient.

For example:

Input	Result
6	The given number 6 is a perfect number
10	The given number 10 is a deficient number
12	The given number 12 is an abundant number

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 #include <stdio.h>
2 int main()
3 {
4     int n, i, sum = 0;
5     scanf("%d", &n);
6     for (i=1 ; i<=n/2 ; i++)
7     { //Write the initialization, condition and increment part
8         if (n%i==0)
9             { // Fill the condition
10                 sum = sum + i;
11             }
12     }
13     if (sum==n)
14     { // Fill the condition
```

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```
int n, i, sum = 0;
scanf("%d", &n);
for (i=1 ; i<=n/2 ; i++ )
{ //Write the initialization, condition and increment part
    if (n%i==0)
        { // Fill the condition
            sum = sum + i;
        }
    if (sum==n)
    { // Fill the condition
        printf("The given number %d is a perfect number", n);
    }
    else if (sum<n )
    { // Fill the condition
        printf("The given number %d is a deficient number", n);
    }
    else
    {
        printf("The given number %d is an abundant number", n);
    }
}
return 0;
```

	Input	Expected	Got	
✓	6	The given number 6 is a perfect number	The given number 6 is a perfect number	✓
✓	10	The given number 10 is a deficient number	The given number 10 is a deficient number	✓
✓	12	The given number 12 is an abundant number	The given number 12 is an abundant number	✓

Passed all tests! ✓

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REC-CIS

Question 8
Correct
Marked out of 1.00
Flag question

Fill in the missing code in the below program to check whether the given number is a strong number or not.

A number is called strong number if sum of the **factorials** of its digit is equal to number itself. For example: **145** is considered a strong number since **$1! + 4! + 5! = 1 + 24 + 120 = 145$** .

The code in the below main() function reads a number from standard input and performs the verification for a strong number by extracting the individual digits and calculating their factorials.

For example:

Input	Result
145	The given number 145 is a strong number
123	The given number 123 is not a strong number

Answer: (penalty regime: 0 %)

Reset answer

```
1 #include <stdio.h>
2 int main()
3 {
4     int rem, n, i, sum = 0, temp, fact = 1;
5     scanf("%d", &n);
6     for (temp = n; n>0 ; n = n / 10)
7     { // Write the condition part
8         rem = n%10 ; // Calculate remainder value
9         fact = 1;
10        for (i=1 ; i<=rem ; i++)
11        { // Write the initialization, condition and increment part
12            fact = fact * i;
13        }
14        sum = sum + fact;
15    }
16    if ( sum==temp )
```

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```
1 #include <stdio.h>
2 int main()
3 {
4     int rem, n, i, sum = 0, temp, fact = 1;
5     scanf("%d", &n);
6     for (temp = n; n>0 ; n = n / 10)
7     { // Write the condition part
8         rem = n%10 ; // Calculate remainder value
9         fact = 1;
10        for (i=1 ; i<=rem ; i++)
11        { // Write the initialization, condition and increment part
12            fact = fact * i;
13        }
14        sum = sum + fact;
15    }
16    if ( sum==temp )
17    { // Fill the condition
18        printf("The given number %d is a strong number\n", temp);
19    }
20    else
21    {
22        printf("The given number %d is not a strong number\n", temp);
23    }
24    return 0;
25 }
```

	Input	Expected	Got	
✓	145	The given number 145 is a strong number	The given number 145 is a strong number	✓
✓	123	The given number 123 is not a strong number	The given number 123 is not a strong number	✓

Passed all tests! ✓