

CS23331-Design and Analysis of Algorithms-2024 Batch-CSE, IT, AIML & AIDS

Started on Friday, 8 August 2025, 1:41 PM

State Finished

Completed on Sunday, 10 August 2025, 12:03 PM

Time taken 1 day 22 hours

Marks 13.00/15.00

Grade 86.67 out of 100.00

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✓	✓	✓	✓	✓	✓	✓	✓	✓

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Finish review

Question 1 | Correct Mark 1.00 out of 1.00 Flag question

Given two numbers, write a C program to swap the given numbers.

For example:

Input	Result
10 20	20 10

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int a;
5     int b;
6     scanf("%d %d",&a,&b);
7     int temp=a;
8     a=b;
9     b=temp;
10    printf("%d %d",a,b);
11 }

```

	Input	Expected	Got
✓	10 20	20 10	20 10 ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths >= 65

Marks in Physics >= 55

Marks in Chemistry >= 50

Or

Total in all three subjects >= 180

Sample Test Cases

Test Case 1

Input

70 60 80

Output

The candidate is eligible

Test Case 2

Input

50 80 80

Output

The candidate is eligible

Test Case 3

Input

50 60 40

Output

The candidate is not eligible

Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main(){
3     int a;
4     int b;
5     int c;
6     scanf("%d %d %d",&a,&b,&c);
7     int sum=(a+b+c);
8     if((a>=65 & b>=55 & c>=50) || sum>=180){
9         printf("The candidate is eligible");
10    }else{
11        printf("The candidate is not eligible");
12    }
13 }
14
15

```

	Input	Expected	Got	
✓	70 60 80	The candidate is eligible	The candidate is eligible ✓	
✓	50 80 80	The candidate is eligible	The candidate is eligible ✓	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3 | Correct Mark 1.00 out of 1.00 Flag question

Malini goes to BestSave hyper market to buy grocery items. BestSave hyper market provides 10% discount on the bill amount B when ever the bill amount B is more than Rs.2000.

The bill amount B is passed as the input to the program. The program must print the final amount A payable by Malini.

Input Format:

The first line denotes the value of B.

Output Format:

The first line contains the value of the final payable amount A.

Example Input/Output 1:

Input:

1900

Output:

1900

Example Input/Output 2:

Input:

3000

Output:

2700

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a, val, val2;
5     scanf("%d", &a);
6     if(a>2000){
7         val=a*0.10;
8         val2=a-val;
9         printf("%d", val2);
10    }else{
11        printf("%d", a);
12    }
13 }
14
15
16
17
18 }
```

	Input	Expected	Got	
✓	1900	1900	1900 ✓	
✓	3000	2700	2700 ✓	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4 | Correct Mark 1.00 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

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 #include<math.h>
3 int main(){
```


Output:
121 110 99 88 77 66

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int st,en,div;
5     scanf("%d %d %d", &st, &en, &div);
6     for(int i=en;i>=st;i--){
7         if(i%div==0) printf("%d ",i);
8     }
9 }
```

	Input	Expected	Got	
✓	2 40 7	35 28 21 14 7	35 28 21 14 7	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 7 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the quotient and remainder of given integers.

For example:

Input	Result
12	4
3	0

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main(){
3     int a,b;
4     scanf("%d\n%d", &a, &b);
5     printf("%d\n%d", a/b, a%b);
6 }
```

	Input	Expected	Got	
✓	12 3	4 0	4 0	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 8 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the biggest among the given 3 integers?

For example:

Input	Result
10 20 30	30

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main(){
3     int a,b,c;
4     scanf("%d %d %d", &a, &b, &c);
5     if(a>b && a>c) printf("%d",a);
6     else if(b>a && b>c) printf("%d",b);
7     else printf("%d",c);
8 }
```

	Input	Expected	Got	
✓	10 20 30	30	30	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 9 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find whether the given integer is odd or even?

For example:

Input	Result
12	Even
11	Odd

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main(){
3     int a;
4     scanf("%d",&a);
5     if(a%2==0) printf("Even");
6     else printf("Odd");
7 }
```

	Input	Expected	Got
✓	12	Even	Even ✓
✓	11	Odd	Odd ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 10 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the factorial of given n.

For example:

Input	Result
5	120

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got
✓	5	120	120 ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 11 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the sum first N natural numbers.

For example:

Input	Result
3	6

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got
✓	3	6	6 ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 12 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the Nth term in the fibonacci series.

For example:

Input	Result
0	0
1	1
4	3

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got
✓	0	0	0 ✓
✓	1	1	1 ✓
✓	4	3	3 ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 13 | Correct Mark 1.00 out of 1.00 Flag question

Write a C program to find the power of integers.

input:

a b

output:

a^b value

For example:

Input	Result
2 5	32

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 #include <math.h>
3 int main(){
4     int a,b;
5     scanf("%d %d",&a,&b);
6     int c=pow(a,b);
7     printf("%d",c);
8 }
9
10
```

	Input	Expected	Got
✓	2 5	32	32 ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 14 | Incorrect Mark 0.00 out of 1.00 Flag question

Write a C program to find Whether the given integer is prime or not.

For example:

Input	Result
7	Prime
9	No Prime

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 #include <math.h>
3
```

Syntax Error(s)

```
/usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/11/../../../../x86_64-linux-gnu/Scr1.o: in function '_start':
(.text+0x1b): undefined reference to `main'
collect2: error: ld returned 1 exit status
```

Incorrect

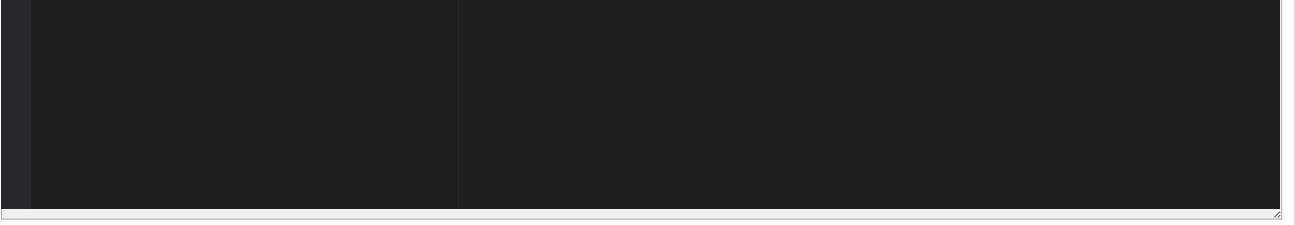
Marks for this submission: 0.00/1.00.

Question 15 | Not answered Mark 0.00 out of 1.00 Flag question

Write a C program to find the reverse of the given integer?

Answer: (penalty regime: 0 %)

```
1
```



[Finish review](#)
