

REC-OCS-1

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

Started on	Friday, 1 August 2025, 1:41 PM
State	Finished
Completed on	Friday, 1 August 2025, 2:22 PM
Time taken	41 mins 40 secs
Marks	15.00/15.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

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

For example:

Input	Result
10 20	20 10

Answer:(penalty regime: 0 %)

Feedback

	Input	Expected	Got	
	10 20	20 10	20 10	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

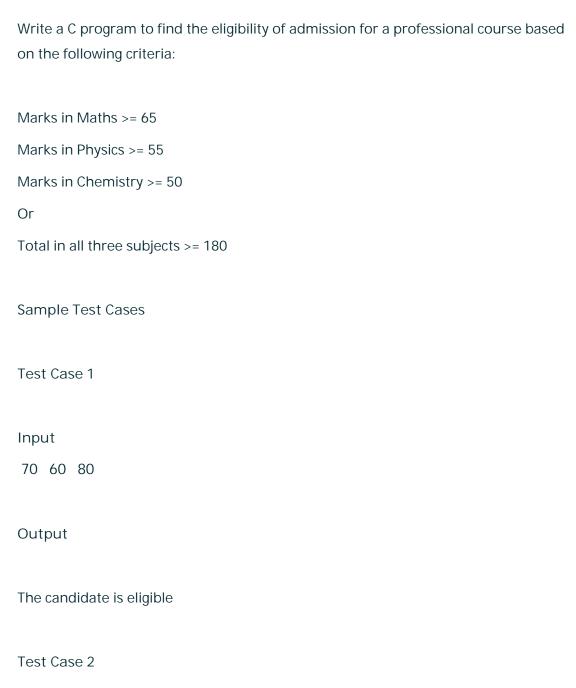
Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text



Input

```
50 80 80
```

Output

The candidate is eligible

Test Case 3

Input

50 60 40

Output

The candidate is not eligible

```
1
2
3
4
5
6
7
8
9
10
```

```
int main(){
   int m,p,c;
   scanf("%d %d %d", &m, &p, &c);
   if((m>=65 && p>= 55 && c>= 50 ) || (m+p+c >= 180))
      printf("The candidate is eligible");
   else
      printf("The candidate is not eligible");
}
```

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

Question text

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 %)

```
# include <stdio.h>

int main(){
  int price;
  scanf("%d", &price);
  printf("%d", (price>2000)?((int)(price - price*0.1)):price);
}
```

	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

Question text

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:
output i onniati
The first line denotes the value of money with Baba in the beginning of the day.
The mediane deficies the value of meney with base in the seguining of the day.
Example Input/Output:
Input:
100
100
Output:
400
400
Explanation:
Baba donated to two beggars. So when he encountered second beggar he had 100*2
= Rs.200 and when he encountered 1st he had 200*2 = Rs.400.
Answer:(penalty regime: 0 %)
Ariswer (perialty regime. 0 %)
<u>.</u> 1
2 3
4

```
# include <stdio.h>

int main(){
  int M, B;
  scanf("%d", &M);
  scanf("%d", &B);
  printf("%d", M*B*2);
}
```

Input	Expected	Got	
100	400	400	
2			

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 5

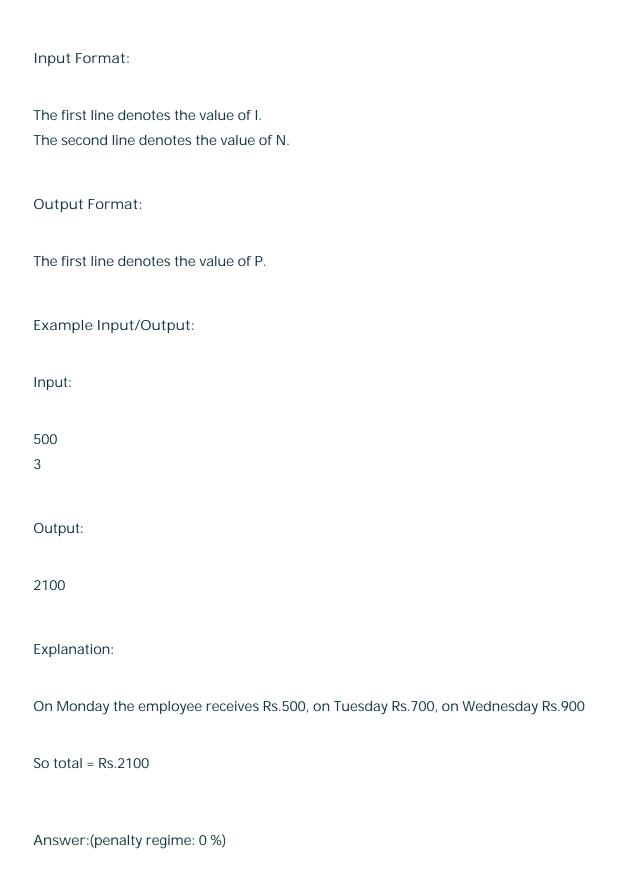
Correct

Mark 1.00 out of 1.00

Flag question

Question text

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.



```
# include <stdio.h>

int main(){
   int amt, n;
   scanf("%d", &amt);
   scanf("%d", &n);
   printf("%d", amt*n + n*200);
}
```

Input	Expected	Got	
500	2100	2100	
100	900	900	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Two numbers M and N are passed as the input. A number X is also passed as the input. The program must print the numbers divisible by X from N to M (inclusive of M and N).

Input Format:

The first line denotes the value of M
The second line denotes the value of N
The third line denotes the value of X

Output Format:

Numbers divisible by X from N to M, with each number separated by a space.

Boundary Conditions:

```
1 <= M <= 9999999
M < N <= 9999999
1 <= X <= 9999
```

Example Input/Output 1:

Input:

2

40

7

Output: 35 28 21 14 7

Example Input/Output 2:

Input:

66

121

11

Output:

121 110 99 88 77 66

```
# include <stdio.h>

int main(){
  int M, N, d;
  scanf("%d %d %d", &M, &N, &d);
  for(int i=N; i>=M; i--){
    if(i%d == 0)
        printf("%d ", i);
  }
}
```

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

Question text

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

For example:

Input	Result
12	4
3	0

Answer:(penalty regime: 0 %)

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

Feedback

Input	Expected	Got	
12	4	4	
3	0	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

Question text

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 %)

```
12
                                                                      13
# include <stdio.h>
int main(){
    int a, b, c;
    scanf("%d %d %d", &a, &b, &c);
    if(a>b && a>c)
        printf("%d", a);
    else if(b>a && b>c)
        printf("%d", b);
    el se
        printf("%d", c);
```

Feedback

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
```

Question text

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 %)

```
# include <stdio.h>

int main(){
   int n;
   scanf("%d", &n);
   printf("%s", (n%2 == 0)?"Even":"0dd");
}
```

Feedback

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

Question text

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

For example:

Input	Result
5	120

```
# include <stdio.h>

int main(){
   int res = 1;
   int n;
   scanf("%d", &n);
```

```
for(int i=1; i<=n; i++) res *= i;
printf("%d", res);
}
```

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

Question text

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

For example:

Input	Result
3	6

```
1 2 3 4 5 6 7 7 # include <stdio.h>
```

```
int n;
scanf("%d", &n);
printf("%d", (n*(n+1))/2);
}
```

	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

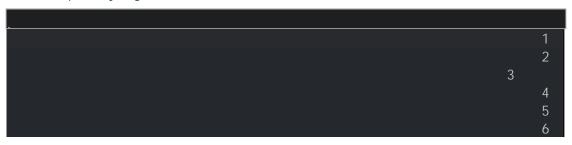
PFlag question

Question text

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

For example:

Input	Result
0	0
1	1
4	3



```
# include <stdio.h>

int fibo(int n){
   if(n<=1)
      return n;
   return fibo(n-1)+fibo(n-2);
}

int main(){
   int n;
   scanf("%d", &n);
   printf("%d", fibo(n));
}</pre>
```

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

Question text

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 %)

```
# include <stdio.h>
# include <math.h>

int main(){
  int a, b;
  scanf("%d %d", &a, &b);
  printf("%d", (int)pow(a,b));
}
```

Feedback

Input	Expected	Got	
2 5	32	32	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 14 Correct Mark 1.00 out of 1.00 P Flag question

Question text

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

For example:

Input	Result
7	Pri me
9	No Prime

```
# include <stdio.h>
int main(){
    int n, c = 0;
    scanf("%d", &n);
    for(int i = 2; i < n; i++){</pre>
```

Input	Expected	Got	
7	Prime	Pri me	
9	No Prime	No Prime	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 15 Correct Mark 1.00 out of 1.00 Flag question

Question text

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

```
1 2 3 4 5 5 6 7 8 9
```

```
# include <stdio.h>
int main(){
   int n;
   scanf("%d", &n);
   int res = 0;
   while(n! = 0){
      res = n%10 + res*10;
      n /= 10;
   }
   printf("%d", res);
}
```

	Input	Expected	Got	
	123	321	321	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

[Finish review]

Skip Quiz navigation

Quiz navigation

Question 1 This page

Question 2 This page

Question 3 This page

	Question 4 This page	
	Question 5 This page	
	Question 6 This page	
	Question 7 This page	
	Question 8 This page	
	Question 9 This page	
	Question 10 This page	
	Question 11 This page	
	Question 12 This page	
	Question 13 This page	
	Question 14 This page	
Ouestion 15 This page Show one page at a time		
[Finish review]		