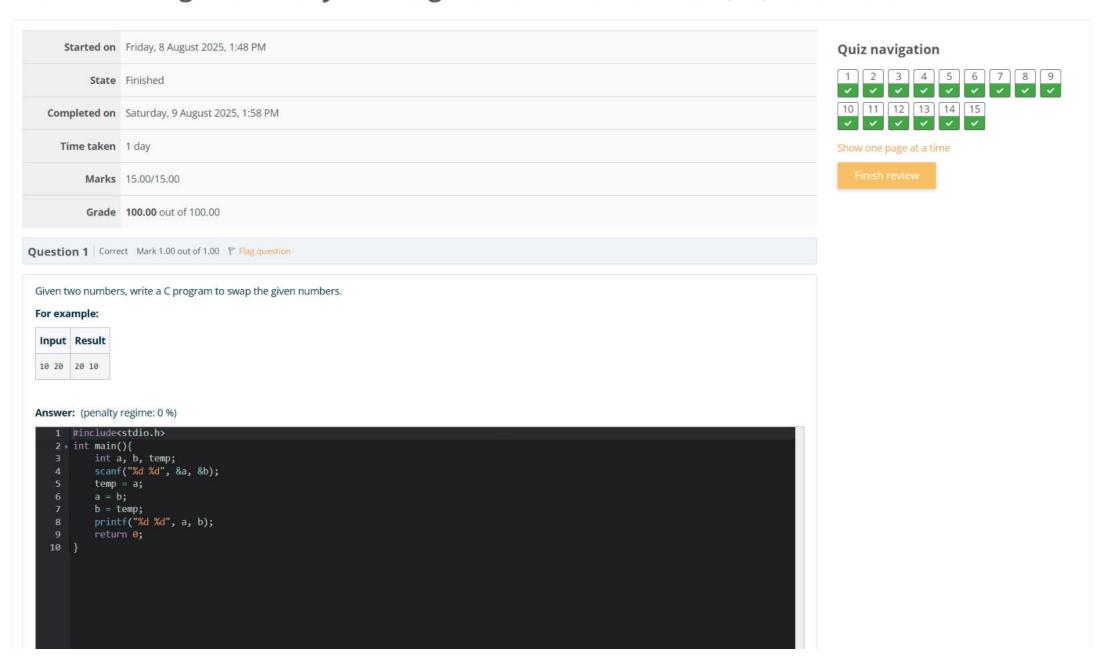
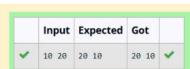


# CS23331-Design and Analysis of Algorithms-2024 Batch-CSE, IT, AIML & AIDS





Correct

Marks for this submission: 1.00/1.00.

### Question 2 | Correct | Mark 1.00 out of 1.00 | F | 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

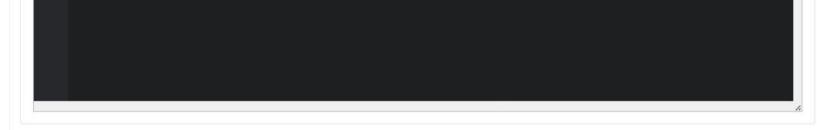
Input

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() int a, b, c, total;
scanf("%d %d %d", &a, &b, &c); if((a >= 65 && b >= 55 && c >= 50) || (total >= 180)) { printf("The candidate is eligible"); 10 + printf("The candidate is not eligible");

14 }



	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	~

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:
```

Answer: (penalty regime: 0 %)

2700

```
1 #include<stdio.h>
2 * int main(){
3     int A, B, discount;
4     scanf("%d", &B);
5 * if (B > 2000) {
6         discount = B * 0.1;
7         A = B - discount;
8     }
9 * else{
10         A = B;
11     }
12     printf("%d", A);
13     return 0;
14 }
```

	Input	Expected	Got	
~	1900	1900	1900	~
,	3000	2700	2700	

Correct

Marks for this submission: 1.00/1.00.

Ougstion 4	Correct	March 1	00 out of 1 0/	O P Flor ounction	
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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

Output:

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 %)

```
#include<stdio.h>
2 v int main(){
    int M, B;
    scanf("%d %d", &M, &B);
    int X = M * B;
    int Y = X * B;
    printf("%d", Y);
    return 0;
    }
}
```

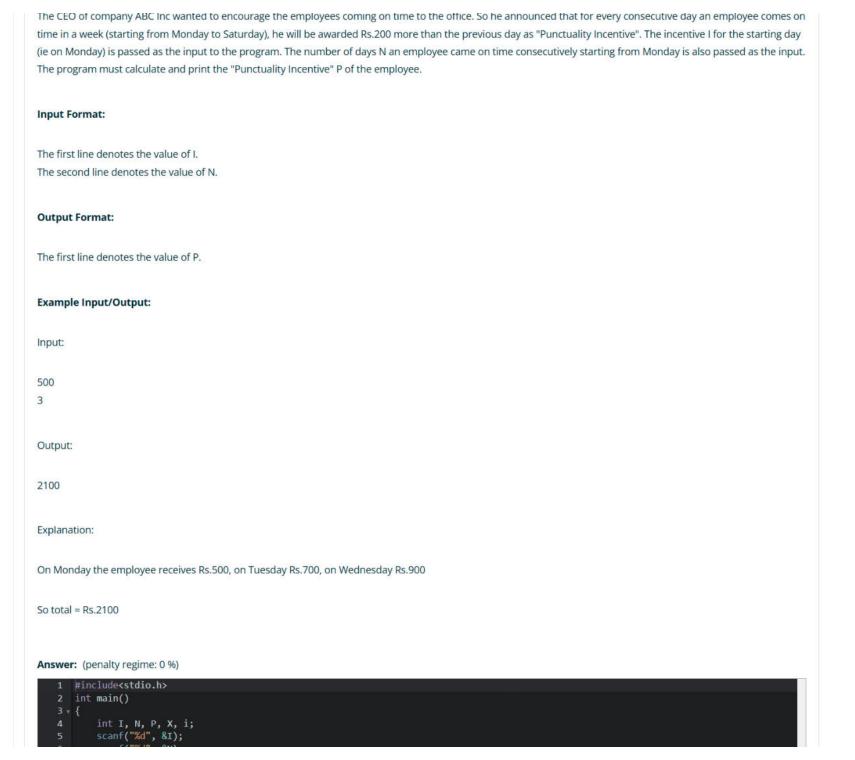
	Input	Expected	Got	
v	100	400	400	~
	2			

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Question 5 | Correct Mark 1.00 out of 1.00 | Flag question



	Input	Expected	Got	
<b>Y</b>	500	2100	2100	~
~	100	900	900	~

Correct

Marks for this submission: 1.00/1.00.

### Question 6 | Correct | Mark 1.00 out of 1.00 | F | Flag question

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

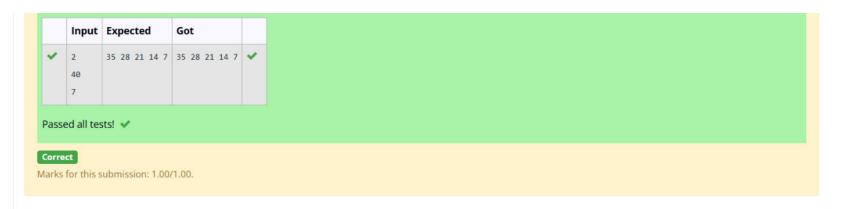
The second line denotes the value of N

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 Answer: (penalty regime: 0 %) 1 #include<stdio.h> 2 \* int main() { int M, N, X; scanf("%d", &M); scanf("%d", &N); scanf("%d", &X); for(int i = N; i >= M; i--) { if(i % X == 0){ printf("%d ", i); 13 }



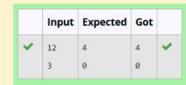
Question 7 | Correct | Mark 1.00 out of 1.00 | Flag question

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

#### For example:

Input	Result
12	4
3	0

```
#include<stdio.h>
int main() {
    int a, b;
    scanf("%d", %a);
    scanf("%d", %b);
    int X = a / b;
    int Y = a % b;
    printf("%d\n", X);
    printf("%d\n", Y);
    return 0;
}
```



Correct

Marks for this submission: 1.00/1.00.

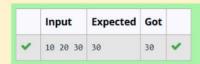
Question 8 | Correct | Mark 1.00 out of 1.00 | Flag question

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

#### For example:

Input	Result
10 20 30	30

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



Correct

Marks for this submission: 1.00/1.00.

Question 9 | Correct | Mark 1.00 out of 1.00 | F | Flag question

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

### For example:

Input	Result
12	Even
11	Odd

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

	Input	Expected	Got	
*	12	Even	Even	V
~	11	Odd	Odd	~

Correct

Marks for this submission: 1.00/1.00.

#### Question 10 | Correct | Mark 1.00 out of 1.00 | F | Flag question

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

### For example:

Input	Result
5	120

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



	Input	Expected	Got	
~	5	120	120	v

Correct

Marks for this submission: 1.00/1.00.

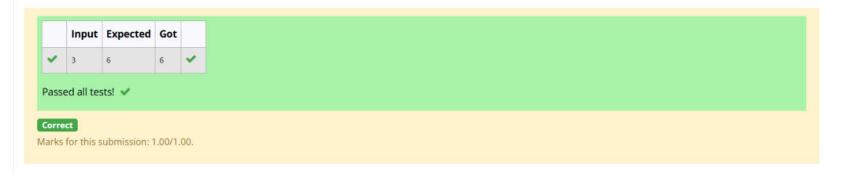
#### Question 11 | Correct | Mark 1.00 out of 1.00 | F | Flag question

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

#### For example:

Input	Result
3	6

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



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

	Input	Expected	Got	
~	0	0	0	~
~	1	1	1	~
~	4	3	3	v

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:

ab

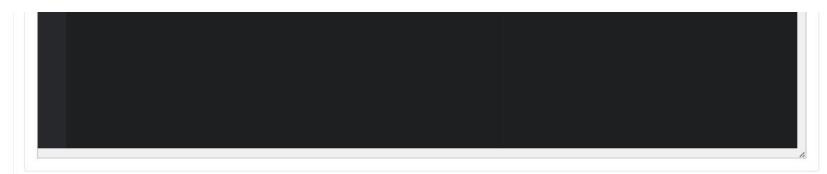
output:

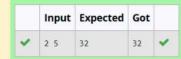
a^b value

For example:

Input	Result
2 5	32

```
#include<stdio.h>
#include<math.h>
int main() {
    int a, b;
    scanf("%d %d", &a, &b);
    int c = pow(a, b);
    printf("%d", c);
    return 0;
}
```





Correct

Marks for this submission: 1.00/1.00.

Question 14 | Correct Mark 1.00 out of 1.00 | Tag question

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

#### For example:

Input		Result	
	7	Prime	
	9	No Prime	

```
#include<stdio.h>
int main() {
    int a, i;
    int is_prime = 1;
    scanf("%d", %a);
    if(a <= 1) {
        is_prime = 0;
        }
    else {
        for(i = 2; i <= a/2; i++) {
            if(a % i == 0) {
                is_prime = 0;
               break;
        }
}</pre>
```

```
if(is_prime) {
   printf("Prime\n");
   printf("No Prime\n");
```

	Input	Expected	Got	
~	7	Prime	Prime	*
~	9	No Prime	No Prime	~

Correct

Marks for this submission: 1.00/1.00.

#### Question 15 | Correct | Mark 1.00 out of 1.00 | Flag question

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

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2 + int main() {
          scanf("%d", &n);
          while(n != 0) {
              n/=10;
          printf("%d", rev);
          return 0;
```



Finish review