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BASIC C PROGRAMMING-PRACTICE

PROGRAM 1:

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,b,c;
5     scanf("%d %d",&a,&b);
6     c=a;
7     a=b;
8     b=c;
9     printf("%d %d",a,b);
10 }
```

	Input	Expected	Got	
✓	10 20	20 10	20 10	✓

Passed all tests! ✓

PROGRAM 2:

1

Answer: (penalty regime: 0 %)

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

PROGRAM 3:

Question 3 Current Mark 1.00 out of 1.00 [View 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.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a,r;
5     scanf("%d",&a);
6     if(a<=2000)
7     {
8         r=a;
9     }
10    if(a>2000)
11    {
12        r=a-(a*0.1);
13    }
14    printf("%d",r);
15 }
```

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

Passed all tests! ✓

Correct

PROGRAM 4: 1

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	100	400	400	✓
	2			

Passed all tests! ✓

PROGRAM 5: 1

```
-----  
1 #include<stdio.h>  
2 int main()  
3 {  
4     int a,b,r=0;  
5     scanf("%d %d",&a,&b);  
6     for(int i=0;i<b;i++)  
7     {  
8         r+=a+(200*i);  
9     }  
10    printf("%d",r);  
11 }
```

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

Passed all tests! ✓

PROGRAM 6:

Question 6 Time: 10 min Mark: 10 out of 100 Tags: 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:

$1 \leq M \leq 999999$
 $M < N \leq 999999$
 $1 \leq X \leq 999$

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int m,n,x;
5     scanf("%d %d %d",&m,&n,&x);
6     for(int i=n;i>=m;i--)
7     {
8         if(i%x==0)
9         {
10             printf("%d ",i);
11         }
12     }
13 }
```

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

Passed all tests! ✓

PROGRAM 7:

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 {
4     int a,b,q,r;
5     scanf("%d %d",&a,&b);
6     q=a/b;
7     r=a%b;
8     printf("%d\n%d",q,r);
9 }
```

	Input	Expected	Got	
✓	12	4	4	✓
	3	0	0	

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

PROGRAM 8:

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 {
4     int a,b,c,r;
5     scanf("%d %d %d",&a,&b,&c);
6     if(a>b&&a>c)
7     {
8         r=a;
9     }
10    else if(b>a&&b>c)
11    {
12        r=b;
13    }
14    else
15    {
16        r=c;
17    }
18    printf("%d",r);
19 }
```

	Input	Expected	Got	
✓	10 20 30	30	30	✓

Passed all tests! ✓

PROGRAM 9: 1

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

PROGRAM 10: 1

	Input	Expected	Got	
✓	5	120	120	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

PROGRAM 11:

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 {
4     int a,sum=0;
5     scanf("%d",&a);
6     for(int i=1;i<=a;i++)
7     {
8         sum+=i;
9     }
10    printf("%d",sum);
11 }
```

	Input	Expected	Got	
✓	3	6	6	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

PROGRAM 12: 1

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     int a=0,b=1,c;
7     for(int i=2;i<=n;i++)
8     {
9         c=a+b;
10        a=b;
11        b=c;
12    }
13    if(n==0)
14    {
15        c=a;
16    }
17    if(n==1)
18    {
19        c=b;
20    }
21    printf("%d",c);
22 }
```

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

Passed all tests! ✓

PROGRAM 13: 1

	Input	Expected	Got	
✓	2 5	32	32	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

PROGRAM 14:

Question 14 | Correct Mark 1.00 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 int prime(int n,int d)
3 {
4     if(n<=1)
5     {
6         return 0;
7     }
8     if(d==1)
9     {
10        return 1;
11    }
12    if(n%d==0)
13    {
14        return 0;
15    }
16    return prime(n,d-1);
17 }
18 int main()
19 {
20     int n;
21     scanf("%d",&n);
22     if(prime(n,n/2))
23     {
24         printf("Prime");
25     }
26     else
27     {
28         printf("No Prime");
29     }
30 }
```

	Input	Expected	Got	
✓	7	Prime	Prime	✓
✓	9	No Prime	No Prime	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

PROGRAM 15:

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()
3 {
4     int a;
5     scanf("%d",&a);
6     int digit,rev=0;
7     while(a!=0)
8     {
9         digit=a%10;
10        rev=(rev*10)+digit;
11        a/=10;
12    }
13    printf("%d",rev);
14 }
```

	Input	Expected	Got	
✓	123	321	321	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.