

15. (b) Test 15

Test Summary

- No. of Sections: 2
- No. of Questions: 3
- Total Duration: 45 min

Section 1 - Coding Proficiency

Section Summary

- No. of Questions: 2
- Duration: 30 min

Additional Instructions:

None

Q1. **Pattern**
Print the pattern
If N=4
1
2*3
3*4*5
4*5*6*7
3*4*5
2*3
1

Input Format

Input contains n

Output Format

Print the pattern

Constraints

1<=n<=50

Sample Input

5

Sample Output

1
2*3
3*4*5
4*5*6*7

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. **Pattern**
Print the pattern . n = 4
1
2 2
3 3 3
4 4 4 4

Input Format

Input is n

Output Format

Print the pattern

Constraints

1<= n <= 50

Sample Input

4

Sample Output

1
2 2



Section 2 - Essay Writing z

Section Summary

- No. of Questions: 1
- Duration: 15 min

Additional Instructions:

None

Q1. Essay Writing

"Steps taken to preserve natural resources"

Directions

Write an essay for the given question

Keywords



Answer Key & Solution

Section 1 - Coding Proficiency

Q1

Test Case

Input

4

Output

1
2*3
3*4*5
1*5*6*7

Weightage - 5

Input

6

Output

1
2*3
3*4*5
1*5*6*7

Weightage - 10

Input

2

Output

1
2*3
1

Weightage - 5

Input

8

Output

1
2*3
3*4*5
1*5*6*7

Weightage - 10

Input

10

Output

1
2*3
3*4*5
1*5*6*7

Weightage - 10

Input

12

Output

1
2*3
3*4*5
1*5*6*7

Weightage - 10

Input

15

Output

1
2*3
3*4*5
1*5*6*7



Weightage - 10

Input

18

Output

1
2*3
3*4*5

Weightage - 10

Input

14

Output

1
2*3
3*4*5
1*5*6*7

Weightage - 10

Input

21

Output

1
2*3
3*4*5

Weightage - 10

Input

25

Output

1
2*3
3*4*5

Weightage - 10

Sample Input

5

Sample Output

1
2*3
3*4*5
1*5*6*7

Solution

```
#include<stdio.h>
//#include<conio.h>
int main()
{
    int n , ctr , ctr1,count;
    // clrscr();
    scanf("%d",&n);
    for( ctr = 1 ; ctr <= n ;printf("\n"), ctr++ )
        for( ctr1 = ctr,count = 0 ; count < ctr ; ctr1++,count++ )
            if( count == ctr-1)
                printf("%d",ctr1);
            else

                printf("%d*",ctr1);
    for( ctr = n-1 ; ctr > 0 ; printf("\n"),ctr--)
        for( ctr1 = ctr , count = 0 ; count < ctr ; ctr1++, count++)
            if( count == ctr-1)
                printf("%d".ctr1):
```



```
        printf("%d*" , ctr1);

    else
        printf("%d*" , ctr1);

}

#include<stdio.h>
//#include<conio.h>
int main()
{
    int n , ctr , ctr1,count;
    // clrscr();
    scanf("%d",&n);
    for( ctr = 1 ; ctr <= n ;printf("\n"), ctr++ )
        for( ctr1 = ctr,count = 0 ; count < ctr ; ctr1++,count++ )
            if( count == ctr-1)
                printf("%d",ctr1);
            else

                printf("%d*",ctr1);
    for( ctr = n-1 ; ctr > 0 ; printf("\n"),ctr-- )
        for( ctr1 = ctr , count = 0 ; count < ctr ; ctr1++, count++)
            if( count == ctr-1)
                printf("%d",ctr1);
            else
                printf("%d*" , ctr1);

}
```

Q2 **Test Case**

Input

5

Output

1
2 2
3 3 3
4 4 4 4

Weightage - 5

Input

6

Output

1
2 2
3 3 3
4 4 4 4

Weightage - 5

Input

8

Output

1
2 2
3 3 3
4 4 4 4

Weightage - 10

Input

11

Output

1
2 2
3 3 3



Weightage - 10

Input

13

Output

1
2 2
3 3 3
4 4 4 4

Weightage - 10

Input

15

Output

1
2 2
3 3 3
4 4 4 4

Weightage - 10

Input

17

Output

1
2 2
3 3 3

Weightage - 10

Input

25

Output

1
2 2
3 3 3

Weightage - 10

Input

30

Output

1
2 2
3 3 3

Weightage - 10

Input

40

Output

1
2 2
3 3 3

Weightage - 10

Input

35

Output

1
2 2
3 3 3

Weightage - 10



Sample Input

4

Sample Output

1
2 2
3 3 3
4 4 4 4

Solution

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

int main()
{
    int n , ctr, ctr1;
    // clrscr();
    scanf("%d",&n);
    for( ctr = 1 ; ctr <= n ; printf("\n"),ctr++)
    {
        for( ctr1 = 1 ; ctr1 < ctr ; ctr1++ )
            printf("%d ",ctr);
        printf("%d",ctr);
    }
}
```

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

int main()
{
    int n , ctr, ctr1;
    // clrscr();
    scanf("%d",&n);
    for( ctr = 1 ; ctr <= n ; printf("\n"),ctr++)
        for( ctr1 = 1 ; ctr1 <= ctr ; ctr1++ )
            printf("%d ",ctr);
}
```

Section 2 - Essay Writing z

- Q1
- Sample Essay
- No Essay

Keywords

nature, resource, preserve, avoid, steps,

