Assignments

1. Write a program in C to print the following star pattern.

```
*  *

*

*

*

* * * *

*

*

*

* * * * * *
```

2. Write a program in C to print all unique elements in an array. Print the array elements in the following pattern.

```
* *

*

* * * *

*

*

* * * * * * * *

*

*

*

* * * * * * * * * * * * * * *
```

3. Write a program in C to read n number of values in an array and display it in reverse order. Print the reversed array elements in the following pattern.

```
* * * * * * *

* *       * *

*   *   *   *

*     *     *

*   *   *   *

* *       * *

* * * * * * *
```

4. Write a program in C to read n number of values in an array and display the array after skipping two values next to an odd number.

5. Write a program in C to print the following star pattern.

```
* * *

*

*

* * * * * *

*

*

*

*

* * * * * * * * *

*

*

*

*

*

*

* * * * * * * * * * *
```

6. Write a C program to print the following star pattern

```
*
* *
*
*
*
* * * *
*
*
*
*
*
* * * * * *
```

7. Write a program in C to separate odd and even integers in separate arrays. Print the even integers in following pattern

```
*
* *
*
*
*
* * * *
*
* * * * * *
*
*
*
* * * * * * * *
```

8. Write a C program to find the second largest element of an array.

9. Write a C program to reverse the elements of an array. Print the array elements in the following pattern.

```
* *
*
*
* * * *
*
*
*
*
* * * * * *
*
*
*
*
*
*
```

10. Write a program in C to read n number of values in an array and display it in reverse order. Print the reversed array elements in the following pattern.

```
*
* * *
*
*
* * * * * *
*
*
*
```

* * * * * * * *

11. Write a program in C to read n number of values in an array & display the array after skipping two values next to an odd number.

12. Write a C program to sort an array and print the count of '1' in the array.

13. Write a C program to reverse the elements of an array. Print the array elements in the following pattern.

* * * * *
*
*
* * * * * * * * * *
*
*
*
*
* * * * * * * * * * * * * * *
*
*
*
*
*
*

14. Write a program to delete all the multiples of 5 in an array. Print the array elements in the following pattern.

```
* * *
*
* * * * * *
*
*
*
* * * * * * * * *
*
*
*
*
*
```

15. Write a C program to replace all even numbers by 0 & odd numbers by 1 in one dimensional array.

16. Write a program to skip all the multiples of '2' in an array. Print the array elements in the following pattern.

```
* *
*
* * * *
*
*
*
* * * * * * * *
*
*
*
*
*
```

17. Write a program to skip two elements after all the prime numbers in an array.

18. Write a program in C to get an array from users and remove odd numbers from the array and find sum of the existing values in the array and print the following pattern with sum.

19. Write a program to replace all the prime numbers in an array by '0'.

20. Write a program to replace all odd numbers with '' in an array. Print the array elements in the following pattern.*

```
*
* * * *
*
*
* * * * * * * *
*
* * * * * * * * * *
*
*
```

21. Write a program to delete prime numbers in an array. Print the remaining elements in the following pattern.

```
* * * * *
*
*
```

```
*
* * * * * * * * * *
*
*
*
*
*
*
* * * * * * * * * * * * * * *
```

22. Write a C Program to print the following pattern

```
* * * * * * * * * *
*
* * * * * * * *
*
*
* * * * * *
*
*
*
* * * *
*
*
*
*
* *
*
```

*

*

*

*

23. Sort the elements in an array in reverse order and print them in following pattern

* * *

*

*

*

* * * * * *

*

*

*

*

*

*

* * * * * * * * *

24. Find the sum of prime numbers in an array as 'n' and plot the following pattern with 'n' number of stars.

```
* *
* * * * *
* * * *
* * * * * * * * * *
* * * * * * * *
* * * * * * * * * * * * * * * * * * * * *
```

25. Find the sum of multiples of 3 in an array as 'n' and plot the following pattern with 'n' number of stars

```
*
*
* * * *
*
*
* * * * * * *
*
*
* * * * * * * * * * *
```

*26. In an array, replace all the prime numbers with ' * ' & remove all the even numbers. Then print the elements in the following pattern.*

```
*
*
*
* *
```

*
*
*
* * * *
*
*
*
* * * * * *

27. Reverse the array and remove all the multiples of '3' from it. Print the array elements in the following pattern.

*
* *
*
*
*
* * * *
*
*
*
*
*
* * * * * *

28. Sort the array in ascending order and remove the next two array elements after the occurrence of an odd number.

*29. Sort the array and replace elements in odd position with * . Print the following pattern with those array elements.*

*

```
* * * *
*
*
* * * * * * * *
*
*
*
* * * * * * * * * * * *
```

30. Reverse the array and remove all the odd numbers from it. Print the elements in the following pattern.

```
*
*
* * *
* *
* *
* * * * * *
* * *
* * *
* * *
* * * * * * * * *
```

*31. Find the sum of prime numbers in an array an 'n'. Print 'n' number of * in the following pattern.*

```
* *
*
*
*
* * * *
```

*

*

*

*

*

*

* * * * * *

32. Remove all the prime numbers from an array. Print the array elements in the following pattern.

* * *

*

* * * * * *

*

*

* * * * * * * * *

*

*

*

*33. Find the second largest element 'n' in an array. Print 'n' number of * in the following pattern.*

* *

*

*

*

* * * *

*

*

*

*

*

*

* * * * * *

*34. Replace all the odd numbers with * and even numbers with #. Print them in the following pattern.*

* *

*

*

*

* * * *

*

*

*

* * * * * *

*

*

*

35. Reverse the array and print the elements in the following pattern.

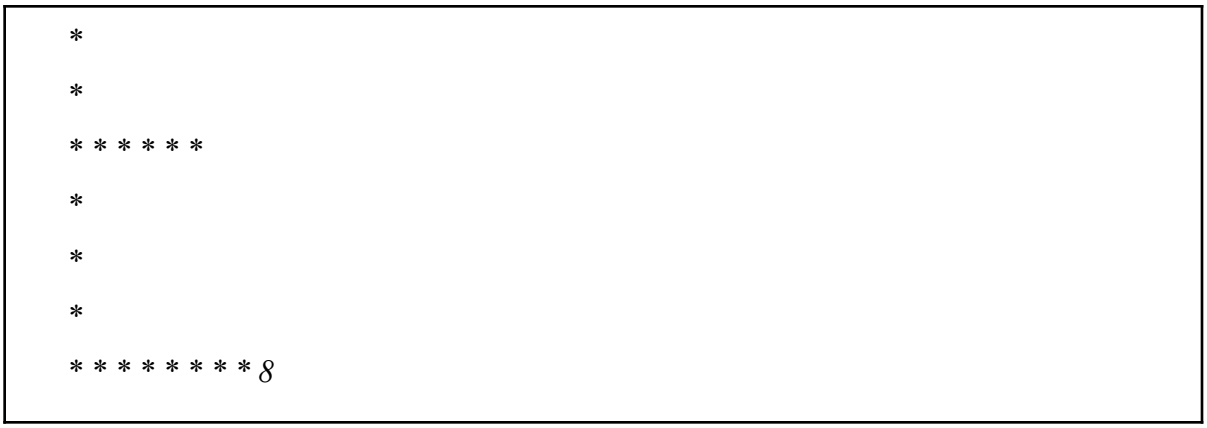
*

*

*

* * *

*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*
* * * * * *
*
*
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