ISTE DSA Summer School Week 1 Assignment

- 1. Write a program to print "Welcome to ISTE Summer School".
- 2. Write a program to reverse a given number.
- 3. Write a program to check if a given number is prime or composite.
- 4. Print the given pattern:

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

5. Print the given pattern:



6. Find the largest element in an array :

https://www.geeksforgeeks.org/problems/largest-element-in-array4009/0

- 7. Write a program to initialize a vector(C++) / ArrayList (Java) of integers.
- Take user input to insert elements into the vector (C++) / ArrayList (Java).
- Sort the vector (C++) / ArrayList (Java) using the inbuilt function and print the sorted vector (C++) / sorted ArrayList (Java).
- Reverse the sorted vector (C++) / ArrayList (Java) and print it.
- 8. Initialize a vector(C++)/ArrayList(Java) of integers. Use an iterator to traverse and print each element in the vector/ArrayList. Use a reverse iterator(ListTerator for Java) to traverse and print each element in reverse order.