# Day 24/180 Time and Space Complexity

## Find the Time Complexity Big(O), Theta, Omega:

1. ```
   for(int i=1;i<=n*n;i++)
       cout<<"Coder Army";
   ```

2. ```
   for(int i=1;i<=n*n;i=i+2)
       cout<<"Coder Army";
   ```

3. ```
   for(int i=1;i<=n;i++)
       for(int j=1;j<=n;j=j+5)
       cout<<"Coder Army";
   ```

4. ```
   for(int i=1;i<=n;i++)
       for(int j=i;j<=n;j=j++)
       cout<<"Coder Army";
   ```

5. ```
   for(int i=1;i<=n;i++)
       for(int j=1;j<=n;j=j*4)
       cout<<"Coder Army";
   ```

6. ```
   for(int i=1;i<=n;i=i*2)
       for(int j=1;j<=i;j=j++)
       cout<<"Coder Army";
   ```

```
7: for(int i=1;i<=n;i++)
   for(int j=1;j<=n;j=j++)
   for(int k=1;k<=n;k=k*3)
   cout<<"Coder Army";

8: for(int i=1;i<=n;i++)
   for(int j=1;j<=n;j=j++)
   for(int k=1;k<=n;k++)
   cout<<"Coder Army";
```

# Learn more about the Auxiliary Space Complexity and Total Space Complexity.