Mini Assignment

Data Structure and Algorithms [CSE-2001]

Target Audience [Section 10 & Section 15]

Calculate Computation Complexity (time) of given Problem

Last date of submission: 16/04/2023

1.

```
for(int i = 1;i<=n;i++)
{
   for(int j = n;j>=1;j–)
  {
       System.out.println(“CSIT”);
  }
}
```

2.

```
for(int i = 1;i<=n;i++)
{
       System.out.println(“CSIT”);
}
for(int j = n;j>=1;j–)
{
       System.out.println(“CSIT”);
}
```

3.

```
 for(int i = 1;i<=n;i++)
{
       System.out.println(“CSIT”);
}
for(int i = 1;i<=n;i++)
{
   for(int j = 1;j<=m;j = j*2)
  {
       System.out.println(“CSIT”);
   }
}
```

4.

```
for (i = 0; i < N; i++)
{
    a = a + rand();
}

for (j = 0; j < M; j++)
{
    b = b + rand();
}
```

5.

```
for (i = 0; i < N; i++)
{
    for (j = N; j > i; j--)
    {
        a = a + i + j;
    }
}
```

6.

```
for(int i = 1;i<=n;i=i*5)
{
        System.out.println("CSIT");
}
```

7.

```
for(int i = 1;i<=n;i++)
{
    for(int j = 1;j<=m;j = j*2)
    {
        for(k=j;k>=1;k–)
        {
            System.out.println("CSIT");
        }
    }
}
```

8.

```
for(int j = 1; j < i; j *= 2)
{
    for(int k = j; k >= 1; k /= 2)
```

```
    {
        System.out.println(“DSA”);
    }
}
```