11B

```java
import java.util.Scanner;
class Exercise11B{
    public static void main(String[] args){
        int n = 4;
        long[] x = new long[50];
        int i;
        Scanner kbd = new Scanner(System.in);
        System.out.print("Enter a : ");
        int a = kbd.nextInt();
        System.out.print("Enter b : ");
        int b = kbd.nextInt();
        x[0] = a; x[1] = b;
        for(i=2;i<50;i++){
        x[i] = x[i-1] + x[i-2];
    }
        disArray(x,n);
    }
    public static void disArray(long[]x , int n){
        int k = 0;
        for(int i=0;i<50;i++){
            System.out.printf("%15d",x[i]);
            k = k+1;
        if(k==n){
            System.out.println();
            k = 0;
        }
        }
        System.out.println();
    }
}//Supawit Saengrattanayon 64050604
```

```
C:\WINDOWS\system32\cmd.exe
Enter a : 1
Enter b : 2
              1              2              3              5
              8             13             21             34
             55             89            144            233
            377            610            987           1597
           2584           4181           6765          10946
          17711          28657          46368          75025
         121393         196418         317811         514229
         832040        1346269        2178309        3524578
        5702887        9227465       14930352       24157817
       39088169       63245986      102334155      165580141
      267914296      433494437      701408733     1134903170
     1836311903     2971215073     4807526976     7778742049
    12586269025    20365011074
Press any key to continue . . .
```

```
---------- Java Compile ----------
Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8

Output completed (0 sec consumed) - Normal Termination
```

11B

11B

Supanit Saengrattanayon
6405069 4

```
import java.util.Scanner;
class Exercise11B {
  public static void main(String[] args){
    int n = 4;
    long[]x = new long[50];
    int i;
    Scanner kbd = new Scanner(System.in);
    System.out.print("Enter a : ");
    int a = kbd.nextInt();
    System.out.print("Enter b : ");
    int b = kbd.nextInt();
    x[0] = a; x[1] = b;
    for(i = 2; i<50; i++){
    x[i] = x[i-1] + x[i-2];
  }
     disArray(x,n);
  }
  public static void disArray(long[]x, int n){
    int k = 0;
    for(int i=0; i<50 ; i++){
        System.out.printf("%4d", x[i]);
        k = k+1;
    if(k==n){
        System.out.println();
        k = 0;
    }
    }
    System.out.println();
  }
}
```

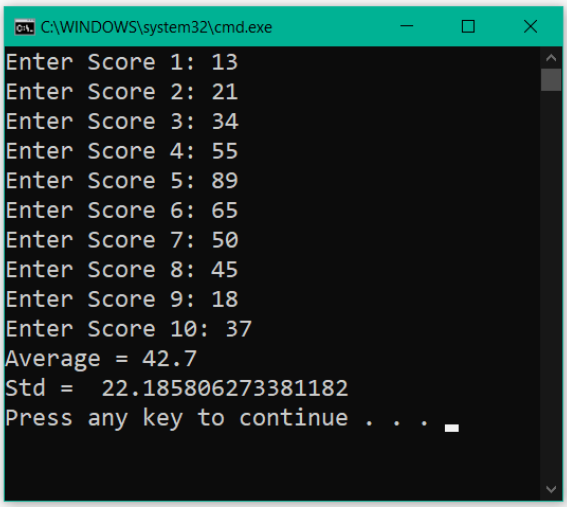
Output :

1	2	3	5
8	13	21	34
55	89	144	233

11C

```
|---+---1---+---2---+---3---+---4---+---5---+---6---+---7---+---8---+---9---+---0---+---1---+---2---+---3---+---4---+---5---+---6-
```

```java
import java.util.Scanner;
public class Exercise11C {
    public static void main(String[] args) {
        double[] sc = new double[50];
        int n = 10;
        double avg , std;
        getScore(sc,n);
        avg=avgScore(sc,n);
        std=sdScore(sc,avg,n);
        System.out.println("Average = "+avg);
        System.out.println("Std =  "+std);
    }
    public static void getScore( double [] sc, int n) {
        Scanner kbd = new Scanner (System.in);
        for(int i = 0 ; i < n ; i++){
        System.out.print("Enter Score "+(i+1)+": ");
        sc[i]=kbd.nextDouble();
        }
        kbd.close();
    }
    public static double avgScore(double[]sc , int n){
        double sum , avg;
        sum = 0.0 ;
        for (int i = 0 ; i < n ; i++ ){
        sum = sum + sc[i];
        }
        avg = sum/n;
        return avg;
    }
    public static double sdScore(double[]sc,double avg,int n){
        double sum = 0.0;
        double sd;
        for ( int i = 0 ; i < n ; i++ ){
        sum = sum + (Math.pow(sc[i], 2));
        }
        sd = Math.sqrt( (sum/n)-(avg*avg) );
        return sd;
        }
}//Supawit Saengrattanayon 64050694
```




```
---------- Java Compile ----------
Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8

Output completed (0 sec consumed) - Normal Termination
```

11C

11C

Sappanit Saengrattanayon
64050694

```
import java.util.Scanner;
public class Exercise11C {
  public static void main(String[] args){
    double[] sc = new double[50];
    int n = 10;
    double avg, std;
    getScore(sc,n);
    avg = avgScore(sc,n);
    std = sdScore(sc,avg,n);
    System.out.println("Average = "+avg);
    System.out.println("Std = "+std);
  }
  public static void getScore(double[] sc, int n){
    Scanner kbd = new Scanner(System.in);
    for(int i = 0 ; i<n ; i++){
    System.out.print("Enter Score "+(i+1)+": ");
    sc[i] = kbd.nextDouble();
    }
    kbd.close();
  }
  public static double avgScore(double[] so , int n){
    double sum, avg;
    sum = 0.0;
    for(int i=0 ; i<n; i++){
    sum = sum + sc[i];
    }
    avg = sum/n;
    return avg;
  }
  public static double sdScore(double[] sc, double avg, int n){
    double sum = 0.0;
    double sd;
    for(int i = 0; i<n ; i++){
    sum = sum + (Math.pow(sc[i], 2));
    }
    sd = Math.sqrt((sum/n)-(avg*avg));
    return sd;
    }
}
```

Output :

```
Enter Score 1: 13
Enter Score 2: 21
Enter Score 3: 34
Enter Score 4: 55
Enter Score 5: 89
Enter Score 6: 65
Enter Score 7: 50
Enter Score 8: 45
Enter Score 9: 18
Enter Score 10: 37
Average = 42.7
Std = 22.198906273381182
```