11B

```
import java.util.Scanner;
  2 ⊟ class Exercise11B{
 3 ⊟
        public static void main(String[] args){
           int n = 4;
long[] x = new long[50];
            int i;
                                                   C:\WINDOWS\system32\cmd.exe
           Scanner kbd = new Scanner(System.in);
System.out.print("Enter a : ");
                                                  Enter a : 1
           int a = kbd.nextInt();
                                                  Enter b : 2
           System.out.print("E
                                                                                                                        5
                                                                                    2
           int b = kbd.nextInt();
x[0] = a; x[1] = b;
for(i=2;i<50;i++){</pre>
11
                                                                                   13
                                                                   8
                                                                                                     21
                                                                                                                       34
13
                                                                 55
                                                                                                    144
                                                                                   89
                                                                                                                      233
           x[i] = x[i-1] + x[i-2];
                                                                                  610
                                                                                                    987
                                                                                                                     1597
15 ⊟
       }
                                                               2584
                                                                                 4181
                                                                                                   6765
                                                                                                                    10946
           disArray(x,n);
16
                                                                                                                    75025
                                                              17711
                                                                                28657
                                                                                                  46368
18 ⊟
        public static void disArray(long[]x , int n){
                                                             121393
                                                                                                                  514229
                                                                              196418
                                                                                                317811
           int k = 0;
int k = 0;
for(int i=0;i<50;i++){
    System.out.printf("%15d",x[i]);
    k = k+1;</pre>
19
                                                                             1346269
                                                                                               2178309
                                                                                                                 3524578
                                                             832040
20 ⊟
                                                           5702887
                                                                             9227465
                                                                                              14930352
                                                                                                                24157817
21
                                                          39088169
                                                                            63245986
                                                                                             102334155
                                                                                                              165580141
23 ⊟
           if(k==n){
                                                                                            701408733
                                                         267914296
                                                                           433494437
                                                                                                             1134903170
              System.out.println();
k = 0;
24
                                                        1836311903
                                                                         2971215073
                                                                                            4807526976
                                                                                                              7778742049
25
                                                       12586269025
                                                                         20365011074
                                                  Press any key to continue \dots
27
28
           System.out.println();
29
    }//Supawit Saengrattanayon 64050604
<
----- Java Compile -----
```

Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8

Output completed (0 sec consumed) - Normal Termination

11B

import journath . Sconner; clace Exemple the 6 public static vold main (String[] auge) f int n = 4; long[]x = new long[[e]; int i; Sconner that = row Sconner(System.in); Systemant print ("Enter a: "); int a * that.next[nt(); Systemant print ("Enter b: "); int b * that.next[nt(); x[a] = a; x[1] = b; for (i = 2; i < 50; i++) f x[i] = x[i-1] + x[i-2]; disferrory(x,n); 1 public stratic void disferrory(long[]x, int n) f int t * 0; i < 50; i++) f Systemant print ("; i-y, x,	2 13 99	3 21 144	5 34 223	G40s	Saengrattar 50694	
class Example 118 1 public static void main (String[] avgs) 6 int n = 4; 55 lang[]x = new lang[50]; int i; Sconner tool = rew Sconner(System.in); Systemoul.print("Enter a: "); int a = kbd.next[nt(); Systemoul.print("Enter b: "); int b = kbd.next[nt(); 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 alisArray(lang[]x, int n) f int k = 0; for (int i = 0; i < 50; i++) Systemoul.println(); k = k+1; if (k == n) Systemoul.println(); k = 0; 3	13	21	34			
class Example 118 1 public static void main (String[] avgs) 6 int n = 4; 55 lang[]x = new lang[50]; int i; Sconner tool = rew Sconner(System.in); Systemoul.print("Enter a: "); int a = kbd.next[nt(); Systemoul.print("Enter b: "); int b = kbd.next[nt(); 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 alisArray(lang[]x, int n) f int k = 0; for (int i = 0; i < 50; i++) Systemoul.println(); k = k+1; if (k == n) Systemoul.println(); k = 0; 3	13	21	34			
public static wold main (String[] args) 9 int n = 4; 55 long[]x = new long[50]; int; ; Sconner thul = new Sconner(System.in); Systemant.print("Enter a: "); int a = kbd.next[nt(); Systemant.print("Enter b: "); int b = kbd.next[nt(); x[0] = a; x[1] = b; for (i = 2; i < 50; i++) x[i] = x(i-1] + x[i-2]; } disArrany(x,n); 1 public static void disArrany(long[]x, int n) fint k = 0; for (int i = 0; i < 50; i++)	13	21	34			
int n = 4; 55 long(]x = new long[50]; int i; Sowmer kbd * rew Scomer(System.in); Systemout.print("Enter a: "); int a * kbd.nextInt(); Systemout.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]; 1						
long[]x = new long[50]; int i; Sconner thud = new Sconner(System.in); Systemout.print("Enter a: "); int a = kbd.nextInt(); Systemout.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]; } disArrory(x,n); public static void disArrory(long[]x, int n) { int k = 0; for (int i = 0; i < 50; i++) { Systemout.print("-frod", x(i)); k = k+1; if(k = = n) { Systemout.print(c); k = 0; } Y	99	Het-	233			
int; Sconner thd * rea Sconner(System.in); Systemout.print("Enter a: "); int a * kbd.nextInt(); Systemout.print("Enter b: "); int b * kbd.nextInt(); x[0] = a; x[1] = b; for (i = 2; i < 50; i++) f x[i] * x[i-1] + x[i-2]; } disArray(x,n); public static void alisArray(long[]x, int n) f int k * 0; for (int i = 0; i < 50; i++) f Systemout.printf("/ryad", x(13); k * k+1; if(k == n) f Systemout.println(); k * 0; 3 7 Systemout.println();						
Sconner thud = reas Sconner(System.in); Systemout.print("Enter a: "); int a = kbd.nextInt(); Systemout.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]; } disArrany(x,n); 1 public static void disArrany(long[]x, int n) { int k = 0; for (int i = 0; i < 50; i++) { Systemout.printf("/nxd", x(13); k = k+1; if(k == n) { Systemout.println(); k = 0; 7 Systemout.println();						
Systemout.print("Enter a: "); int a = kbd.nex+Int(); Systemout.print("Enter b: "); int b = kbd.nex+Int(); x[0] = a; x[1] = b; for (i = 2; i < 50; i++) { x[i] = x[i-1] + x[i-2]; } disArray(x,n); 1 public static wid disArray(long[]x, int n) { int k = 0; for (int i = 0; i < 50; i++) { Systemout.printf("/pyd", x(13); k = k+1; if(k == n) { Systemout.println(); k = 0; } Y Systemout.println();						
int a . kbd.nextInt(); Systemout.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]; } disArroxy(x,n); public studic void disArroxy(long[]x, int n) { int k * 0; for (int i = 0; i < 50; i ++) { Systemout.printf("-f-150d", x(13)); k * k + 1; if(k = n) { Systemout.println(); k = 0; } Systemout.println();						
Systemont.print("Enter b: "); int b · kbd.nexfInt(); x[0] = a; x[1] = b; for (i = 2; i < 50; i++) f x[i] * x[i-1] + x[i-2]; } disArray(x,n); public studic void alisArray(long[]x, int n) f int k · 0; for (int i * 0; i < 50; i ++) f Systemant.println(", frod.", x(13); k * k + 1; if(k = n) f Systemant.println(); k * 0; 1 3 Systemant.println();						
int b · kbd. nextInt(); x[0] = a; x[1] = b; for (i = 2; i < 50; i++) f x[i] * x[i-1] + x[i-2]; } disArray(x,n); 1 public static void disArray(long[]x, int n) f int k · 0; for (int i = 0; i < 50; i++) f Systemant.printf("/ 1/154", x(i)); k = k+1; if(k == n) f Systemant.println(); k = 0; 7 Systemant.println();						
X[0] = a; x[1] = b; for (i = 2; i < 50; i++) { x[i] = x[i-1] + x[i-2]; } disArrony(x,n); 1 public studic world disArrony(long[]x, int n) { int k = 0; for (int i = 0; i < 50; i++) { Systemant.printf("/pyd", x(13); k = k+1; if(k == n) { Systemant.println(); k = 0; } V Systemant.println(); 1 Systemant.println(); 1 Systemant.println(); 1						
for (i = 2; i < 50; i++) {						
x[i] * x[i-1] + x[i-2]; disArray(x,n); 1 public studic void disArray(long[]x, int n) { int k * 0; for (int i * 0; i cso; i++) { Systemant.printf("/1954", x(i)); k * k + 1; if(k = = n) f Systemant.println(); k * 0; 1 Y Systemant.println(); 1						
disArroy(x,n); public static void disArroy(long[]x, int n) { int k = 0; for (int i = 0; i < so; i++) { Systemant.printf("/nsd", x(13); k = k+1; if(k == n) { Systemant.println(); k = 0; } Systemant.println(); k = 0; }						
disArray(x,n); public studic void disArray(long[]x, int n) { int k · 0; for (int i * 0; i < so; i + +) { Systemant.printf("/ 1/154", x(13)); k * k + 1; if(k == n) { Systemant.println(); k * 0; } y Systemant.println();						
1 public studic void olisArroy(long[]x, int m) { int k = 0; for (int i = 0; i < so; i++) {						
public studic void disArroy(long[]x, int n) { int k = 0; for (int i = 0; i < so ; i++) { Systemant.printf("/rod", x(13); k = k+1; if(k == n) f Systemant.println(); k = 0; 1 Y Systemant.println();						
int k = 0; for (int i = 0; i < 50; i ++) {						
for (int i = 0; i < 50; i ++){ Systemant.print(""/"50", x(13); k = k+1; if(k == n) { Systemant.println(); k = 0; 7 Systemant.println(); 1 Systemant.println();						
Systemout.printle("/-1964", x(13)) k * k+1; if(k ==n){ Systemout.println(); k * 0; 7 Systemout.println(); 1						
k * k+1; if(k==n){ Systemout.println(); k * 0; } Systemout.println();						
if (k==n) f Systemant.println(); k = 0; 7 Systemant.println(); 1						
Systemant.println(); k = 0; 7 Y Systemant.println(); 4						
k = 0; 1 7 Systemout.println(); 1						
7 Systemout.println(); 1						
Fystomout.println();						
Systemout.printh();						
X						

```
---+---1----+---2----+---3----+---4----4----+---5----+---6----+---7----+---8----+---9----+----8----+---1----+---2----+---3----+----3----+---4----+---5----+---6-----
      import java.util.Scanne
  2 ⊟public class Exercise11C {
3 ⊟ 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);
10
                                                                                   C:\WINDOWS\system32\cmd.exe
                                                                                  Enter Score 1: 13
         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)+": ");
    }
}</pre>
13 ⊟
14
                                                                                  Enter Score 2: 21
15
                                                                                 Enter Score 3: 34
              sc[i]=kbd.nextDouble();
                                                                                 Enter Score 4: 55
18
 19
                                                                                 Enter Score 5: 89
              kbd.close():
                                                                                 Enter Score 6: 65
21 ⊟
          public static double avgScore(double[]sc , int n){
                                                                                 Enter Score 7: 50
             double sum , avg;
sum = 0.0 ;
for (int i = 0 ; i < n ; i++ ){</pre>
22
23
                                                                                  Enter Score 8: 45
25
              sum = sum + sc[i];
                                                                                  Enter Score 9: 18
26
              }
                                                                                  Enter Score 10: 37
27
              avg = sum/n;
28
              return avg;
                                                                                 Average = 42.7
 29
                                                                                  Std = 22.185806273381182
30 ⊟
          public static double sdScore(double[]sc,double avg,int n){
31
              double sum = 0.0;
double sd;
                                                                                 Press any key to continue \dots
 33
              for ( int i = 0 ; i < n ; i++ ){
              sum = sum + (Math.pow(sc[i], 2));
 35
              sd = Math.sqrt( (sum/n)-(avg*avg) );
              return sd;
 38
39 }//Supawit Saengrattanayon 64050694
<
----- Java Compile -----
```

Picked up JAVA_TOOL_OPTIONS: -Dfile.encoding=UTF-8

Output completed (0 sec consumed) - Normal Termination

11C

```
11C
                                                                                                          Sapanit Saengrattanayon
                                                                                                                 64050694
import java util Scanner;
                                                             Output:
                                                                           Enter Score 1: 13
public closs Exercise 110 {
                                                                            Enter Score 2: 21
  public static void main (String[] args) f
                                                                            Enter Score 3: 34
     double[] sc . new double[50];
                                                                            Enter Score 4: 55
    int n = 10;
                                                                           Enter Score 5: 89
    double ary, std;
                                                                            Enter Score 6: 65
    getScore (sc,n);
                                                                            Enter Score 7: 50
    ave = aveScore (sc,n);
                                                                            Enter Score 8: 45
    std = sdScore (sc, avg,n);
                                                                            Enter Score 9: 18
    System.out.println ("Average = "+avg);
                                                                            Enter Score 10: 37
    System.out.println ("Std . "+ std);
                                                                            Average = 42.7
                                                                            Std = 22.185806273381182
  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 " + (1+1)+": ");
    SC[i] = kbd, nextDonble();
    kbd. close();
  public studic double aug. Score (double [] so , int n) {
   double sum, avy;
    Sum = 0.0;
    for (int i=0; i <n; i++) {
    sum . sum + sc[i];
    avg = smm/n;
    return ova;
  public static double sdScore (double [7 sc, double arg, just n) {
    double sum = 0.0;
    double sd;
   for (int i = 0; i < n; i++)f
    sum . sum + (Math. pow (SCEIJ, 2));
    sd . Math. sqrt ((snm/n) - (avg * avg));
     return sd;
```