МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ

ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ АВТОНОМНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ «Национаьная научно-образовательная коорпорация ИТМО»

ФАКУЛЬТЕТ ПииКТ

ЛАБОРАТОРНАЯ РАБОТА №1 по дисциплине «ПРОГРАММИРОВАНИЕ» Вариант №66666

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Лабораторная работа #1

Написать программу на языке Java, выполняющую соответствующие варианту действия. Программа должна соответствовать следующим требованиям:

- 1. Она должна быть упакована в исполняемый jar-архив.
- 2. Выражение должно вычисляться в соответствии с правилами вычисления математических выражений (должен соблюдаться порядок выполнения действий и
- 3. Программа должна использовать математические функции из стандартной библиотеки Java.
- 4. Результат вычисления выражения должен быть выведен в стандартный поток вывода в заданном формате.

Выполнение программы необходимо продемонстрировать на сервере helios.

Введите вариант: 66666

- 1. Создать одномерный массив h типа int. Заполнить его числами от 2 до 17 включительно в порядке возрастания.
- 2. Создать одномерный массив x типа float. Заполнить его 19-ю случайными числами в диапазоне от -6.0 до 3.0.
- 3. Создать двумерный массив а размером 16х19. Вычислить его элементы по следующей формуле (где х = x[j]):
 - \circ если h[i] = 17, то $a[i][j] = e^{rcsin(\cos(x))}$;

$$\circ$$
 если h[i] = 17, to $a[i][j] = e$ \circ ..., \circ если h[i] \in {2, 3, 5, 6, 8, 10, 13, 16}, то $a[i][j] = \cos\left((\pi \cdot \sin(x))^2\right)$; \circ для остальных значений h[i]: $a[i][j] = \frac{\left(\frac{(e^2)^{\arcsin\left(\frac{x-1.5}{4}\right)-1}}{4}\right)^2-1}{1}/3$.

4. Напечатать полученный в результате массив в формате с четырьмя знаками после запятой.

Исходный код программы

```
public class Program1 {
        public static double getRandomNum(int a, int b) {
                double RandomNum = (Math.random()*9)-6;
                if (RandomNum > 0.0001) {
                         RandomNum += 0.0001;
                         if (RandomNum > b) {
                                  RandomNum = b;
                         }
                 }
                return RandomNum;
        }
     public static void main(String[] args) {
          int∏ h;
          h = new int[16];
          for (int i = 0; i < 16; i++) {
               h[i] = i+2;
          }
          float[] x;
          x = new float[19];
                for (int i = 0; i < 19; i++) {
                         float randomDouble = (float)getRandomNum(-6,3);
                         x[i] = randomDouble;
          double[][] a;
          a = new double[16][19];
          for (int i = 0; i < 16; i++) {
                for (int j = 0; j < 19; j++) {
                     if (h[i] == 17) {
                          a[i][j] = Math.exp(Math.asin(Math.cos(x[j])));
                     } else if (h[i] == 2 \parallel h[i] == 3 \parallel h[i] == 5 \parallel h[i] == 6 \parallel h[i] == 8 \parallel h[i] == 10 \parallel
                               h[i] == 13 \parallel h[i] == 16) \{
                          a[i][j] = Math.cos((Math.pow(Math.PI*Math.sin(x[j]), 2)));
                     } else {
                          double powNum = (Math.asin((x[j]-1.5)/9)-1)*x[j];
                          float result = (float)(Math.pow(Math.exp(powNum)/4, 2)-1)/3;
                          a[i][j] = result;
```

https://github.com/DenisBilobram/sppo/blob/main/proga/lab1/program.java

Результат работы программы

	notttk@DESKTOP-JN202TL:~/sppo/proga/lab1\$ ja	va Program1										A
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Выводы по работе

Я изучил синтаксические основы языка программирования Java, научился работать с основными конструкциями, изучил библиотеку Math. Повторил работу с массивами и числами. Научился создавать jar архивы.