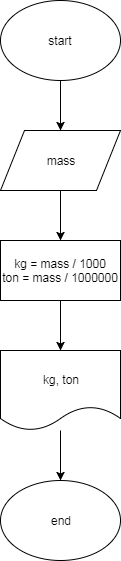
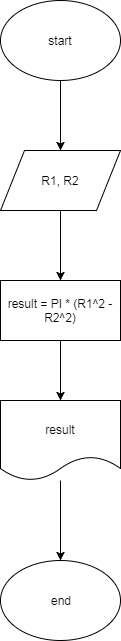
Задание 1.



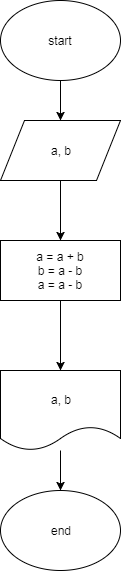
public class Task11 {  
 public static void run() {  
 double mass = 150000000;  
 System.*out*.println("Mass in kg: " + *toKilograms*(mass));  
 System.*out*.println("Mass in t: " + *toTons*(mass));  
 }  
  
 public static double toKilograms(double mass) {  
 return mass / 1000.0;  
 }  
  
 public static double toTons(double mass) {  
 return mass / 1000000.0;  
 }  
}

Задание 2.



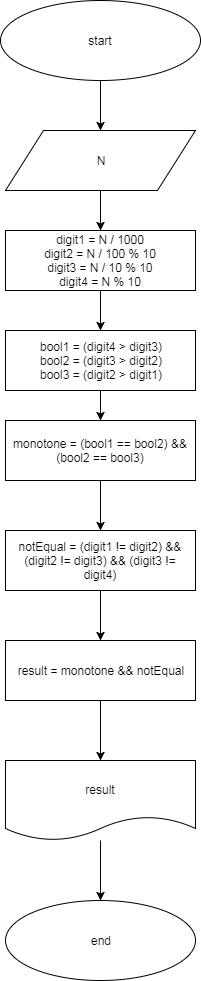
public class Task12 {  
 public static void run() {  
 double R1 = 10;  
 double R2 = 3;  
 System.*out*.println(*getRingArea*(R1, R2));  
 }  
  
 public static double getRingArea(double r1, double r2) {  
   
 return Math.*PI* \* (Math.*pow*(r1, 2) - Math.*pow*(r2, 2));  
 }  
  
}

Задание 3.

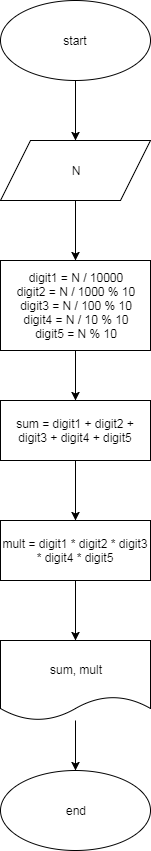


public class Task13 {  
 public static void run() {  
 int a = 5;  
 int b = 1;  
 System.*out*.println("a = " + a + ", b = " + b);  
 *swap*(a, b);  
 }  
  
 public static void swap(int a, int b) {  
 a = a + b;  
 b = a - b;  
 a = a - b;  
 System.*out*.println("a = " + a + ", b = " + b);  
 }  
}

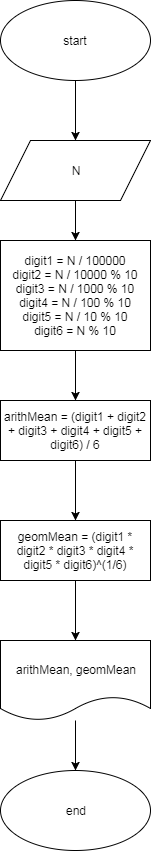
Задание 4.

public class Task14 {  
 public static void run() {  
 int N = 4689;  
 System.*out*.println(*check*(N));  
 }  
  
 public static boolean check(int number) {  
 int digit1 = number / 1000;  
 int digit2 = number / 100 % 10;  
 int digit3 = number / 10 % 10;  
 int digit4 = number % 10;  
 boolean bool1 = (digit4 > digit3);  
 boolean bool2 = (digit3 > digit2);  
 boolean bool3 = (digit2 > digit1);  
 boolean monotone = (bool1 == bool2) && (bool2 == bool3);  
 boolean notEqual = (digit1 != digit2) && (digit2 != digit3) && (digit3 != digit4);  
 return monotone && notEqual;  
 }  
}

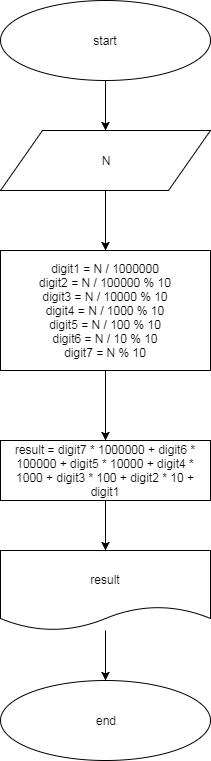
Задание 5.

public class Task15 {  
 public static void run() {  
 int N = 75946;  
 System.*out*.println("sum: " + *getDigitSum*(N));  
 System.*out*.println("multiplication: " + *getDigitMult*(N));  
 }  
  
 public static int getDigitSum(int n) {  
 int digit1 = n / 10000;  
 int digit2 = n / 1000 % 10;  
 int digit3 = n / 100 % 10;  
 int digit4 = n / 10 % 10;  
 int digit5 = n % 10;  
 return digit1 + digit2 + digit3 + digit4 + digit5;  
 }  
  
 public static int getDigitMult(int n) {  
 int digit1 = n / 10000;  
 int digit2 = n / 1000 % 10;  
 int digit3 = n / 100 % 10;  
 int digit4 = n / 10 % 10;  
 int digit5 = n % 10;  
 return digit1 \* digit2 \* digit3 \* digit4 \* digit5;  
 }  
}

Задание 6.

public class Task16 {  
 public static void run() {  
 int N = 286751;  
 System.*out*.println("Arithmetic mean: " + *getMeanArithmetic*(N));  
 System.*out*.println("Geometric mean: " + *getMeanGeometric*(N));  
 }  
  
 public static double getMeanArithmetic(int n) {  
 int digit1 = n / 100000;  
 int digit2 = n / 10000 % 10;  
 int digit3 = n / 1000 % 10;  
 int digit4 = n / 100 % 10;  
 int digit5 = n / 10 % 10;  
 int digit6 = n % 10;  
 int sum = digit1 + digit2 + digit3 + digit4 + digit5 + digit6;  
 return sum / 6.0;  
 }  
  
 public static double getMeanGeometric(int n) {  
 int digit1 = n / 100000;  
 int digit2 = n / 10000 % 10;  
 int digit3 = n / 1000 % 10;  
 int digit4 = n / 100 % 10;  
 int digit5 = n / 10 % 10;  
 int digit6 = n % 10;  
 double mult = digit1 \* digit2 \* digit3 \* digit4 \* digit5 \* digit6;  
 return Math.*pow*(mult, 1.0 / 6);  
 }  
}

Задание 7.



public class Task17 {  
 public static void run() {  
 int N = 1958675;  
 System.*out*.println(*reverse*(N));  
 }  
  
 public static int reverse(int n) {  
 int digit1 = n / 1000000;  
 int digit2 = n / 100000 % 10;  
 int digit3 = n / 10000 % 10;  
 int digit4 = n / 1000 % 10;  
 int digit5 = n / 100 % 10;  
 int digit6 = n / 10 % 10;  
 int digit7 = n % 10;  
  
 return digit7 \* 1000000 + digit6 \* 100000 + digit5 \* 10000 + digit4 \* 1000 + digit3 \* 100 + digit2 \* 10 + digit1;  
 }  
}